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November 15, 2016

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, December 8, 2016**, at Clubhouse at Edinburgh USA, 8700 Edinbrook Crossing, Brooklyn Park, MN. Lunch will be served at 12:30 p.m. and the meetings will convene concurrently at 12:45.

Please email Kerstin at kerstin@jass.biz to confirm whether you or your Alternate will be attending the meetings. Your meal choices are

- _____ **Greek Chicken Salad.** Sliced chicken breast, mixed greens, diced cucumbers, tomatoes, red onion, feta cheese with oregano vinaigrette _____ Dressing on the side
- _____ **Chicken Marsala.** Dusted and sautéed chicken breast, Marsala Wine Sauce, Buttermilk Chive Mashed Potatoes and Fresh Vegetables du Jour
- _____ **French Dip with Smoked Jus.** House-smoked Prime rib topped with sautéed onions and Swiss Cheese on Toasted Italian Bread.
- _____ I will be attending but DO NOT want a meal.
- _____ No one from our community will be attending the regular meeting on Thursday, December 8.

The regular meeting will be preceded at 11:00 a.m., by a meeting of the Technical Advisory Committee. Andy Erickson from the St. Anthony Falls Laboratory will attend that meeting to provide an overview of the research and practice on iron-enhanced sand filters. Commissioners are invited to attend the TAC meeting as well.

The Clubhouse at Edinburgh requires reservations eight days before the event. We must make final reservations by **noon, Tuesday, November 29, 2016**. 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,

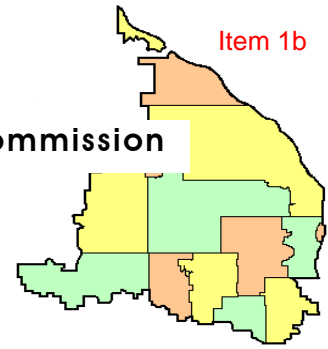
Judie A. Anderson
Administrator

cc: Alternate Commissioners Member Cites Troy Gilchrist TAC Members
Metropolitan Council Wenck Associates

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Watershed Management Commission



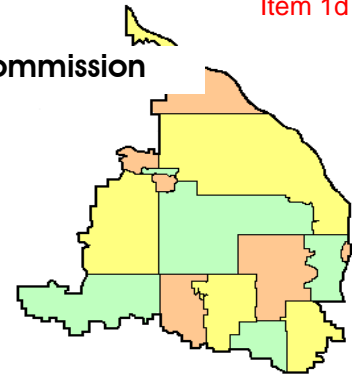
A combined regular meeting of the Shingle Creek and West Mississippi Watershed Management Commissions will be convened on Thursday, November 10, 2016, at 12:45 p.m. at the Clubhouse at Edinburgh USA, 8700 Edinbrook Crossing, Brooklyn Park, MN. An agenda for the regular meeting follows. Agenda items are available at: <http://www.shinglecreek.org/minutes--meeting-packets.html>.

The regular meeting will be preceded at 11:00 a.m., by a meeting of the joint Technical Advisory Committee. Andy Erickson from the St. Anthony Falls Laboratory will attend the TAC meeting to provide an overview of the research and practice on iron-enhanced sand filters. TAC agenda items are available at <http://www.shinglecreek.org/tac-meetings.html>.

- 1. Call to Order.
 - SCWM a. Roll Call.
 - ✓ SC b. Approve agenda.*
 - ✓ WM c. Approve agenda.*
 - ✓ SC d. Approve minutes of last meeting.*
 - ✓ WM e. Approve minutes of last meeting.*
- 2. Reports.
 - ✓ SC a. Treasurer’s Report.*
 - ✓ SC b. Approve claims.*
 - ✓ WM c. Treasurer’s Report.*
 - ✓ WM d. Approve claims.*
- 3. Open forum.
- 4. Project Reviews.
- 5. Watershed Management Plan.
 - ✓ SCWM a. 2016 Annual Progress Review.*
- 6. Water Quality.
 - SCWM a. TAC Report.
- 7. Education and Public Outreach – Update.*
 - SCWM a. WMWA meeting – 8:30 a.m., Tuesday, January 10, 2017, Plymouth City Hall.
- 8. Grant Opportunities and Updates.
 - SC a. Connections at Shingle Creek – final report.*
 - SC b. Becker Park Project – revised cost-share agreement.*
 - SCWM c. Iron- and Biochar-Enhanced Sand Filter Bench Pond Retrofits.
 - SC d. Public Art Reaeration Structures.
 - SC e. Twin Lake Carp Management.
 - ✓ SC 1) Approve MOU with City of Robbinsdale.*
 - SCWM f. Hennepin County AIS Prevention Grant Program.*
- 9. Communications.
 - SCWM a. Communications Log.*
- 10. Other Business.
- 11. Adjournment

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* In meeting packet or emailed ** Available at meeting ***Previously transmitted **** Available on website ✓ Item requires action



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**MINUTES
Regular Meeting
November 9, 2016**

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

I. A joint meeting of the Shingle Creek Watershed Management Commission and the West Mississippi Watershed Management Commission was called to order by Shingle Creek Chairman Andy Polzin on Thursday, October 13, 2016, at 12:45 p.m., at the Clubhouse at Edinburg, USA, 8700 Edinbrook Crossing, Brooklyn Park, MN.

Present for Shingle Creek were: Dave Vlasin, Brooklyn Center; John Roach, Brooklyn Park; Janet Moore, Crystal; Karen Jaeger, Maple Grove; Bill Wills, New Hope; Daniel Spanier, Osseo; Andy Polzin, Plymouth; Wayne Sicora, Robbinsdale; Troy Gilchrist, Kennedy & Graven; Ed Matthiesen and Diane Spector, Wenck Associates, Inc.; and Judie Anderson, JASS.

Not represented: Minneapolis.

Present for West Mississippi were: Dave Vlasin, Brooklyn Center; John Roach, Brooklyn Park; Gerry Butcher, Champlin; Karen Jaeger, Maple Grove; Daniel Spanier, Osseo; Troy Gilchrist, Kennedy & Graven; Ed Matthiesen and Diane Spector, Wenck Associates, Inc.; and Judie Anderson, JASS.

Also present were: Mitchell Robinson, Brooklyn Park; Todd Tuominen, Champlin; Mark Ray, Crystal; Rick Lestina, Maple Grove; Gary Anderson and Liz Stout, Minneapolis; Bob Paschke, New Hope; Ben Scharenbroich, Plymouth; and Richard McCoy, Robbinsdale.

II. **Agendas and Minutes.**

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

Motion by Butcher, second by Spanier to approve the revised **West Mississippi agenda**.* *Motion carried unanimously.*

Motion by Sicora, second by Moore to approve the **minutes of the October regular meeting**.* *Motion carried unanimously.*

Motion by Jaeger, second by Spanier to approve the **minutes of the October regular meeting**.* *Motion carried unanimously.*

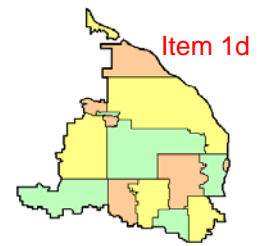
III. **Finances and Reports.**

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

Motion by Jaeger, second by Sicora to approve the **Shingle Creek November claims**.* Claims totaling \$41,221.78 were *approved by roll call vote*: ayes – Vlasin, Roach, Moore, Jaeger, Wills, Spanier, Polzin, and Sicora; nays – none; absent – Minneapolis.

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

*items are included in meeting packet



Motion by Vlasin, second by Jaeger to approve the **West Mississippi November claims**.^{*} Claims totaling \$13,531.72 were *approved by roll call vote*: ayes – Vlasin, Roach, Butcher, Jaeger and Spanier; nays – none.

IV. Open Forum.

V. Project Reviews.

A. WM2016-11 Northpark Business Center Buildings 3 and 4, Brooklyn Park. The applicant requested that this project be removed from the agenda.

B. EAW – TH169/101st Avenue Interchange Project, Brooklyn Park.^{*} SRF Consulting prepared an Environmental Assessment Worksheet (EAW) for a proposed project to reconstruct and expand Highway 169 and 101st Avenue. The work is intended to provide transportation infrastructure for 1,500 acres of undeveloped property and the expansion of the Target Campus. The project includes the construction of a new folded interchange at the existing at-grade intersection of TH169 and 101st Avenue. A new bridge along 101st Avenue will be constructed over TH169, and auxiliary lanes will be constructed on north and southbound lanes between TH610 and 101st Avenue. Roundabouts will be constructed at TH 169/101st and Jefferson Highway/101st. Stormwater ponds and filtration basins will be constructed near the Jefferson Highway/101st Avenue intersection and within the TH 169/101st Avenue interchange ramp areas.

The EAW is a standard format used in Minnesota for environmental review of projects that meet certain thresholds. The EAW provides information about a project that may have the potential for significant environmental effects, and is prepared by a Responsible Governmental Unit (RGU) or its agents to determine whether an Environmental Impact Statement (EIS) should be prepared. The EAW is reviewed by agencies having permitting or other authority to review a project and by the public at large. It is not intended to identify and solve all potential environmental issues, but to disclose them and identify potential mitigation measures that would be further developed as project design proceeds.

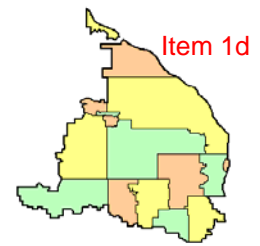
Staff's November 3, 2016 technical memo addresses the TH169/101st Avenue Interchange Project and its conformance with the West Mississippi Watershed Management Commission's rules for linear construction projects. The memo outlines the conformance of the project in regards to the Commission's water quality, stormwater runoff control, volume control, and erosion control standards. Additionally, the memo addresses impacts on wetlands, Public Waters, groundwater, and the regulatory floodplain. Their findings are summarized below.

1. To comply with the Commission's **water quality** treatment requirement, the site must provide ponding designed to NURP standards with dead storage volume equal to or greater than the volume of runoff from a 2.5" storm event, or BMPs providing a similar level of treatment - 80-85% TSS removal and 50-60% TP removal. This 52-acre site drains to the east into city storm sewer and an unnamed creek in the Environmental Preserve. Existing and proposed ground cover is summarized in the memo. There are no impaired waters within a mile of the project site. Treatment provided by the various ponds and sump manholes should provide the amount of treatment necessary. The Commission requests that calculations be provided to show the treatment capacity of the stormwater ponds.

2. Commission rules require that **site runoff** be limited to predevelopment rates for the 2-, 10-, and 100-year storm events. The Commission requests that calculations be provided to determine that post-development rates are lower than predevelopment rates.

3. Commission **volume control** rules require the site to infiltrate 1.0" of runoff from new impervious area within 48 hours. The project proposes 7.6 acres of new impervious surface from the addition of roads, trails, sidewalks, and turn lanes. This amount of impervious surface requires 27,588 cu-ft. (0.63 ac-ft.) of infiltrative capacity. The current project area does include rate control ponds. With the inclusion of new stormwater ponds in the project, the Commission recommends that filtration trenches or other filtration BMPs be included in the new pond construction as allows.

^{*}items are included in meeting packet



4. The Commission requests that an **erosion control and stormwater pollution prevention plan** be developed for the project.

5. The NWI identified six **wetlands** within the project area. The Commission is LGU for WCA Administration and will review wetland impacts due to fill and hydrology alterations. The EAW shows all wetlands will be filled post construction. As part of design the Commission requires that these be delineated and, if necessary, a mitigation plan prepared.

6. 101st Avenue crosses a public watercourse (public water #254W) immediately east of Jefferson Highway. As part of design the Commission requires that this be delineated and, if necessary, a mitigation plan prepared.

7. There is no regulatory floodplain on the site.

8. The Commission also requests the following:

a. Calculations showing the amount of storage to demonstrate that the project meets the Commission's **water quality standards and rate control standards.**

b. Provide **infiltration BMPs** to meet the Commission's volume control standards;
1) Provide an abstraction volume equivalent to 1" of runoff from new impervious surfaces (27,588 cu-ft.).

c. Create erosion control and stormwater pollution prevention plans to meet the Commission's Erosion control standards.

d. Complete necessary WCA documentation.

Motion by Butcher, second by Jaeger directing Staff to transmit the Technical Memo to the City of Brooklyn Park. *Motion carried unanimously.*

VI. **Water Quality.**

Spector presented an update of monitoring results related for the **Wetland 639W project**.^{*} A specific annual volume reduction goal was not set for the project; the TP load reduction goal was 300 pounds per year on average. It is difficult to say with certainty whether that goal was achieved. Flow out of the wetland is highly dependent on the amount and timing of precipitation, and the amount of available storage in the wetland. For example, not only was 2008 a below-normal precipitation year, the summer months were very dry and the wetland did not discharge all summer. Compare to 2015 which was only slightly above average but there were several large events that filled the wetland, and even small rain events caused the wetland to discharge.

The monitoring team concludes that in wetter years the wetland is retaining water and loads are being reduced. In average or drier years, the amount of load reduction is largely dependent on when precipitation is received and how much storage is available in the wetland. They are also looking for ways to further reduce ortho phosphorus, such as minimizing outflow from the relief valves and additional passive removal in the overflow channel.

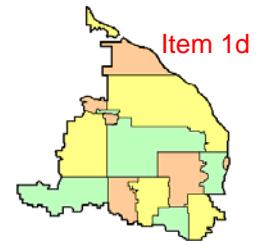
VII. **Education.**

The next West Metro Water Alliance (**WMWA**) meeting is scheduled for 1:00 p.m., Tuesday, November 29, 2016, at Plymouth City Hall.

VIII **Grant Opportunities and Updates.**

A. **Iron- and Biochar-Enhanced Sand Filter Bench Pond Retrofits.** Staff provided an update of this project.

^{*}items are included in meeting packet



B. Public Art Reaeration Structures. The committee is working with the two artists to refine their concepts.

C. The *Sun Post* newspaper published an article in its November 5, 2016 edition relating to the **Twin Lake Carp Management Project*** grant. It is available on the Commission's website.

D. Applications are being accepted until December 15, 2016 through the **Conservation Corps Minnesota** for crew labor for 2017 field projects.*

IX. Communications.

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

B. The **MAWD 2016 Annual Meeting** will be held December 1-3, 2017. www.mnwatershed.org.

X. Other Business.

XI. Adjournment.

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

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

The meeting was adjourned at 1:43 p.m.

Respectfully submitted,

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

Judie A. Anderson
Recording Secretary
JAA:tim

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*items are included in meeting packet



Responsive partner.
Exceptional outcomes.

Technical Memo

To: Shingle Creek/West Mississippi WMO Commissioners

From: Ed Matthiesen, P.E.
Diane Spector

Date: December 2, 2016

Subject: Third Generation Watershed Management Plan Assessment of Progress

**Recommended Commission
Action**

Review, discuss, and adopt.

The Third Generation Watershed Management Plan states that the Commissions will annually review progress toward their Third Generation goals, and that this evaluation will become part of the Annual Report. There is no specific format for such an annual review. Since the Third Generation Plan was adopted, BWSR adopted revised Minnesota Rules 8410 that requires WMOs to review progress every two years.

The purpose of the annual review is first to determine progress towards the goals, and second to be sure the Commissions stay on track to reach them. The annual review is also an opportunity to discuss whether the goals and actions in the Plan still make sense or if they should be considered for modification or enhancement, perhaps to add in new priorities. Ideally, this annual review is also an opportunity to start thinking about your next year's work plan.

The attached tables show each goal, noting progress to date and expected completion. Each of the strategic actions identified for the goal areas are also shown, noting work completed in 2016 and to date, as well as expected completion as general status. For the most part the Commissions are on track to meet goals, with the following exceptions:

- Work has not yet begun on the "sustainable water budget" project. We have had some discussions with USGS staff about this, but have not yet identified a funding source for this project.
- While Lower Twin, Ryan, and Schmidt Lakes have been delisted from the draft Impaired Waters list, you have a stretch goal of achieving delisting for Bass, Eagle, Crystal, and Middle Twin Lakes. As Upper Twin improves, Middle Twin is likely to reach the state standard. Some BMPs have been or will be implemented for Bass and Crystal, but it is not clear yet whether that will be sufficient for delisting or more needs to be done.
- P8 models for the lakesheds are being reviewed as we go through the TMDL review process, so that is an ongoing task.
- You have a goal to have completed subwatershed assessments for at least 25% of that part of the watersheds that developed prior to Commission rules in 1984. You are on track to complete this for West Mississippi, but have completed only 5% of pre-1984 development Shingle Creek. A more achievable goal would be 10%.
- You have a goal of maintaining the functions and values of priority wetlands, but have not established a process by which that would be evaluated.

Shingle Creek and West Mississippi Watershed Management Commissions
2013-2022 Third Generation Watershed Management Plan 2016 Progress Review

Water Quantity

Third Generation Goals	Progress Toward Goals	Expected Completion	Status
A.1 Maintain the existing 100-year flood profile throughout the watersheds.	Ongoing.	Ongoing.	On track
A.2 Determine ecological low flows for Shingle and Bass Creeks	Not yet completed.	Will be completed in the 2018-2020 time period	Needs work

Water Quantity Actions:

Third Generation Actions	Completed in 2016	Completed to Date	Expected Completion	Status
a. Maintain and update as necessary a calibrated hydraulic model of Shingle Creek and its tributaries	At the request and expense of Brooklyn Park incorporated revisions to the Creek segment Bottineau Blvd to Candlewood into the XPSWMM model so they can obtain a LOMR	Update as necessary.	Will continue to maintain and update as necessary and requested.	On track
b. Maintain rules and standards requiring new development and redevelopment to control the rate and volume of runoff discharged from their sites, and update those standards as necessary.	None.	Keep abreast of requirements of other WMOs and agencies.	Will continue to monitor industry developments and regulations and revise rules and standards as necessary.	On track
c. Develop a sustainable water budget for each watershed and an action plan for management activities necessary for its achievement	None.	None.	Will be completed in the 2018-2020 time period.	Needs work

Shingle Creek and West Mississippi Watershed Management Commissions
2013-2022 Third Generation Watershed Management Plan 2016 Progress Review

Water Quality

Third Generation Goals	Progress Toward Goals	Expected Completion	Status
B.1 As lake water quality improves and lakes are removed from the State's Impaired Waters list, implement management strategies to protect lake water quality. It is anticipated that Schmidt, Lower Twin, and Ryan Lakes will be removed in 2014.	Schmidt, Lower Twin, and Ryan are removed on the draft 2014 303(d) list awaiting approval from the EPA. The TMDL 5 Year review for Twin and Ryan includes protection strategies.	Will continue to implement protection strategies as funding and opportunities are available.	On track
B.2 Implement phosphorus and sediment load reduction actions sufficient to achieve de-listing from the Impaired Waters list for Bass, Eagle, Crystal, and Middle Twin Lakes.	BMPs have been completed for Crystal and Middle Twin Lakes, with BMPs expected for Bass Lake. TMDL 5 Year reviews will include additional actions. Need additional data to evaluate progress.	Improving Upper Twin is expected to improve Middle Twin to state standards. Projects have been completed or are scheduled for Crystal and Bass, not clear at this time whether additional actions will be necessary to meet the state standards goal.	On track Work needed
B.3 Improve water clarity in the balance of the lakes by 10% over the average of the previous ten years.	Need more data to evaluate progress.	Will continue to implement load-reduction projects as funding and opportunities are available.	On track
B.4 Improve at least 30% of the length of Shingle Creek to meet Corridor Study and TMDL design standards.	As of 2016, 3.09 miles, or 27% of the 11.15 miles have been restored.	On track to meet this goal prior to 2022. Will continue to pursue grant funds and implement projects as funding is available.	On track
B.5 Maintain nondegradation of all waterbodies compared to 1985 conditions.	Need more data to evaluate progress.	Will continue to implement load-reduction projects as funding and opportunities are available.	On track

Water Quality Actions:

Third Generation Actions	Completed in 2016	Completed to Date	Expected Completion	Status
a. Maintain and update as necessary calibrated P8 models for each lakeshed in Shingle Creek and the major drainage areas of West Mississippi.	Updating the Bass Lake P8 model as part of the TMDL 5 Year Review.	P8 models for each lakeshed, calibrated to XPSWMM.	Will make updates to lakeshed models as necessary as part of the TMDL 5 Year Review.	On track Work needed

Shingle Creek and West Mississippi Watershed Management Commissions
2013-2022 Third Generation Watershed Management Plan 2016 Progress Review

Third Generation Actions	Completed in 2016	Completed to Date	Expected Completion	Status
b. Maintain rules and standards requiring new development and redevelopment to control the total phosphorus and total suspended solids discharged from their sites, and update those standards as necessary.	Ongoing monitoring.	New requirements incorporated into Third Gen Plan and enforced for ongoing development.	Will continue to monitor regulatory needs and trends and consider rules and standards revisions as necessary.	On track
c. Conduct an intensive BMP assessment for at least 25% of that part of the watershed that developed prior to Commission rules in 1984, and achieve 25% of the recommended load reduction within 10 years of the analysis.	<i>Shingle:</i> Completing an assessment of that part of Plymouth that drains to Pike Lake <i>West Miss:</i> None.	<i>Shingle:</i> Completed assessments on 1,125 acres of 23,497 acres developed prior to 1984, or 5%. <i>West Miss:</i> Completed assessments on 1,495 acres of 7,023 acres developed prior to 1984, or 21%.	<i>Shingle:</i> Goal of evaluating 5,874 acres by 2022 difficult; most interest is in doing compact 100-200 acre areas. More achievable goal is 10%, or 2,350 acres. <i>West Miss:</i> The 25% goal will be met by 2022.	<i>Shingle:</i> Work needed <i>West Miss:</i> On track
d. Contribute 25% of the cost of TMDL capital implementation projects (up to \$250,000).	<i>Shingle:</i> Contributing \$363,600 to three 2016 projects. <i>West Miss:</i> Contributing \$131,300 to two 2016 projects.	<i>Shingle:</i> Contributed \$937,500 to nine projects since 2013. <i>West Miss:</i> Contributed \$230,000 to four projects since 2013.	Will continue to contribute to projects submitted to the Commissions' CIP.	On track
e. Pursue grant and other funding to implement improvement projects and feasibility studies.	CWF application submitted for \$38,000 for a subwatershed assessment in Minneapolis	Received five grants totaling \$1,318,125.	Will continue to seek grant funding for projects and special studies.	On track
f. Prepare and implement an Annual Monitoring Plan and conduct monitoring necessary to evaluate water quality conditions and trends in the lakes and streams in the two watersheds.	Completed and approved by the Commissions in April 2016.	Completed annually.	Will continue to complete annually.	On track

Shingle Creek and West Mississippi Watershed Management Commissions
2013-2022 Third Generation Watershed Management Plan 2016 Progress Review

Third Generation Actions	Completed in 2016	Completed to Date	Expected Completion	Status
g. Evaluate progress toward achieving TMDL goals every five years following adoption of the respective Implementation Plans.	Finishing review of Bass-Pomerleau-Schmidt.	Have completed review of Chloride, Twin and Ryan Lakes, and Crystal Lakes.	5 Year Reviews of all TMDLs are expected to be completed by 2022.	On track Work needed

Groundwater

Third Generation Goals	Progress Toward Goals	Expected Completion	Status
C.1 Infiltrate stormwater runoff from new impervious surface.	New requirements incorporated into Third Gen Plan and enforced for ongoing development.	Will continue to enforce and to urge voluntary compliance where infiltration is not required.	On track
C.2 Identify opportunities for and implement projects to infiltrate runoff from existing impervious surface.	Have completed four subwatershed assessments that have identified infiltration BMPs. Working with Crystal on Becker Park Infiltration Project.	Will continue to implement volume reduction projects as funding and opportunities are available.	On track
C.3 Work with the appropriate state agencies to incorporate groundwater assessment into the sustainable water budget analysis for each watershed	Not yet completed.	Will be completed in the 2018-2020 time period.	Work needed

Groundwater Actions:

Third Generation Actions	Completed in 2016	Completed to Date	Expected Completion	Status
a. Maintain rules and standards requiring new development and redevelopment to abstract or infiltrate stormwater runoff from new impervious surface, and update those standards as necessary.	Reviewed Local Plans and ordinances for Osseo and Brooklyn Center.	New requirements incorporated into Third Gen Plan and enforced for ongoing development.	Will continue to monitor regulatory needs and trends and consider rules and standards revisions as necessary.	On track

Shingle Creek and West Mississippi Watershed Management Commissions
2013-2022 Third Generation Watershed Management Plan 2016 Progress Review

Third Generation Actions	Completed in 2016	Completed to Date	Expected Completion	Status
b. Conduct an intensive BMP assessment for at least 25% of that part of the watershed that developed prior to Commission rules in 1984, and achieve 25% of the recommended volume reduction within 10 years of the analysis.	<i>Shingle:</i> Completed assessment in Crystal Commercial Area, and added in additional residential area draining to proposed Becker Park Infiltration Project. <i>West Miss:</i> None.	<i>Shingle:</i> Completed assessments on 1,008 acres of 23,497 acres developed prior to 1984, or 4%. <i>West Miss:</i> Completed assessments on 1,495 acres of 7,023 acres developed prior to 1984, or 21%.	<i>Shingle:</i> Goal of evaluating 5,874 acres by 2022 difficult; most interest is in doing compact 100-200 acre areas. More achievable goal is 10%, or 2,350 acres. <i>West Miss:</i> It is likely that the 25% goal will be exceeded by 2022.	<i>Shingle:</i> Work needed <i>West Miss:</i> On track
c. Coordinate with the Minnesota DNR and other agencies to develop an action plan addressing surficial groundwater elevation issues in northern Brooklyn Park and the associated impacts on wetlands and Lake Success	None.	Preliminary conversations.	Will be completed in the 2017-2020 time period.	Work needed

Wetlands

Third Generation Goals	Progress Toward Goals	Expected Completion	Status
D.1 Maintain the existing functions and values of wetlands identified in the Commissions' Water Quality Plan as high-priority.	For WCA projects where the Commissions are the LGU, are noting where the wetland is a priority wetland. Have not yet set up a process for evaluating this.	Not clear.	Work needed
D.2 Informed by the sustainable water budget study, improve functions and values of wetlands.	Not yet completed.	Will be completed in the 2018-2020 time period.	Work needed

Shingle Creek and West Mississippi Watershed Management Commissions
2013-2022 Third Generation Watershed Management Plan 2016 Progress Review

Wetland Actions:

Third Generation Actions	Completed in 2016	Completed to Date	Expected Completion	Status
a. Adopt a wetland replacement sequencing policy.	No mitigation plans were reviewed in 2016.	Rules and Standards include a sequencing policy.	Will continue to monitor regulatory needs and trends and consider rules and standards revisions as necessary.	On track
b. Identify wetland restoration opportunities and implement projects to restore wetland functions and values or to create new wetland acreage.	None.	Minor vegetation enhancement on Wetland 639W project.	Will continue to pursue grant funds and implement projects as funding is available.	On track

Drainage Systems

Third Generation Goals	Progress Toward Goals	Expected Completion	Status
E.1 Continue current Hennepin County jurisdiction over County Ditch #13	Continue current jurisdiction.	Will continue current jurisdiction unless otherwise agreed to.	On track

Drainage System Actions:

Third Generation Actions	Completed in 2015	Completed to Date	Expected Completion	Status
a. Periodically reconsider the appropriate jurisdiction over County Ditch #13.	None.	Considered during development of the Third Gen Plan, no change.	Will reconsider as requested.	On track

Commission Operations and Programming

Third Generation Goals	Progress Toward Goals	Expected Completion	Status
F.1 Identify and operate within a sustainable funding level that is affordable to member cities.	Commissions continue to operate within the Assessment Cap specified in the JPA.	Ongoing.	On track

Shingle Creek and West Mississippi Watershed Management Commissions
2013-2022 Third Generation Watershed Management Plan 2016 Progress Review

Third Generation Goals	Progress Toward Goals	Expected Completion	Status
F.2 Foster implementation of TMDL and other implementation projects by sharing in their cost and proactively seeking grant funds.	Contributed \$937,500 to nine Shingle projects and \$230,000 toward four West Miss projects since 2013. Established a Small BMP Cost Share program and contributed to two BMP retrofits. Received five grants totaling \$1,318,125.	Will continue to cost-share through the county levy and to pursue grant funds and implement projects as funding is available.	On track
F.3 Operate a public education and outreach program that meets the NPDES Phase II education requirements for the member cities.	Shingle Creek and West Mississippi partner with Bassett Creek and Elm Creek and other agencies and nonprofits to provide education and outreach through the West Metro Water Alliance (WMWA). An annual report is provided to the member cities for the NPDES annual report.	Ongoing, in partnership with WMWA and other organizations.	On track
F.4 Operate a monitoring program sufficient to characterize water quantity, water quality, and biotic integrity in the watersheds and to evaluate progress toward meeting TMDL goals.	The commissions operate ongoing lake, stream, and wetland monitoring programs using both commission technical staff and volunteers.	Ongoing annually.	On track
F.5 Maintain rules and standards for development and redevelopment that are consistent with local and regional TMDLs, federal guidelines, source water and well head protection requirements, sustainable water yields, nondegradation, and ecosystem management goals.	New requirements consistent with the NPDES General Stormwater Permit and MIDS were incorporated into Third Gen Plan and enforced for ongoing development.	Will complete review in 2018 or as necessary.	On track
F.6 Serve as a technical resource for member cities.	The Commissions maintain an ongoing Technical Advisory Committee.	Ongoing.	On track

Commission Operations and Programming Actions:

Third Generation Actions	Completed in 2016	Completed to Date	Expected Completion	Status
a. Annually review the budget and Capital Improvement Program.	Reviewed the budget and CIP, prepared a plan amendment to revise the CIP.	Established a process and schedule for annual review and modification of the CIP.	Ongoing annually.	On track

Shingle Creek and West Mississippi Watershed Management Commissions
2013-2022 Third Generation Watershed Management Plan 2016 Progress Review

Third Generation Actions	Completed in 2016	Completed to Date	Expected Completion	Status
b. Maintain an Education and Public Outreach Committee (EPOC) that is charged with developing and implementing an annual education and outreach plan.	Most of the EPOC business is done in conjunction with WMWA. Have reviewed one Education Grant application.	Most of the EPOC business is done in conjunction with WMWA.	Ongoing.	On track
c. Prepare and implement an annual monitoring plan and summarize the results in an annual water quality report.	Completed and approved by the Commissions in April 2016.	Completed annually.	Ongoing annually.	On track
d. According to the schedules set forth in TMDL Implementation Plans, every five years evaluate progress toward meeting TMDL water quality goals, and adjust the Implementation Plans as necessary to achieve progress.	Finishing review of Bass-Pomerleau-Schmidt.	Have completed review of chloride, Twin and Ryan, and Crystal Lakes TMDLs.	Will complete reviews of every TMDL and Implementation Plan by 2022.	On track Work needed
e. Every five years or as necessary review the development rules and standards for adequacy and make revisions as necessary.	No action taken.	Minor amendment to incorporate Atlas 14.	Will complete review in 2018 or as necessary.	On track
f. Continue research projects on innovative and cost-effective stormwater management practices and technologies.	Implementing a Section 319 grant to undertake the Iron- and Biochar-Enhanced Filters Research Project.	Received Section 319 grant funding for and completed the Modular Green roof study and the Paired Intersection Study.	Will continue to seek grant resources and partnerships to conduct BMP research.	On track
g. Coordinate water resources management between the Commissions and the member cities.	Maintained an ongoing Technical Advisory Committee.	Maintained an ongoing Technical Advisory Committee.	Ongoing.	On track

Technical Memo



Responsive partner.
Exceptional outcomes.

To: Shingle Creek/West Mississippi WMO Commissioners
From: Ed Matthiesen, P.E.
Diane Spector
Date: December 2, 2016
Subject: Education and Outreach and WMWA Update

Education and Outreach

The Shingle Creek Watershed Management Organization Facebook page has 60 Likes. The page has not been very active lately, but we will be sharing more content from the West Metro Water Alliance (WMWA) Facebook Page, which currently has 87 likes. We are always looking for content to post on the website or on social media.

WMWA Update

Planting for Clean Water Project. The Planting for Clean Water and Pollinators “Big Project” is underway. As of October 31, 2016, Blue Thumb had logged 251 pledges pledging to plant over 30 acres with natives. About 60 people did not enter an area to be planted, so the actual area pledged is likely greater than what was logged. Most of the respondents were from Minnesota, but over 20 were from Missouri-Kansas, where Blue Thumb is expanding. Other states from which pledges were made are: Arizona, California, Indiana, New Jersey, Ohio, Oklahoma, Wisconsin, and Wyoming.

To help promote the Planting for Clean Water message, WMWA is organizing opportunities for native plant sales at various city events around the watersheds. We are compiling a master list of city festivals that might have events such as craft fairs that would be suitable for a plant booth, and other opportunities such as farmer’s markets. We have already spoken with one native plant vendor who would be willing to sell plants, and there is likely to be interest from more. In return, WMWA would pay their vendor booth charge if there is one, handle publicity, and provide educational materials. The vendors and local staff would be available to educate and take pledges. The proposed master list is being assembled, and plans will be firmed up at WMWA’s January 10, 2017 meeting. You can visit the campaign site at <http://www.bluethumb.org/pledge/>.

Educators. The educators are winding down the fall semester classroom visits and scheduling spring visits. There is growing interest in a 6th grade follow up lesson, and the three educators will be meeting over the next few months to prepare the lesson plan.

The next WMWA meeting is January 10, 2017 at 8:30 am at Plymouth City Hall.

Z:\West Metro Water Alliance\2016\M-december wmwa update.docx

Technical Memo



Responsive partner.
Exceptional outcomes.

To: Shingle Creek WMO Commissioners

From: Ed Matthiesen, P.E.
Diane Spector

Date: December 2, 2016

Subject: Connections at Shingle Creek Final Report

Recommended Commission Action	Authorize release of \$200,000 of Clean Water grant funds and the balance of levy due on receipt of an invoice from Brooklyn Park.
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Work is complete on the Connections at Shingle Creek project located in Brooklyn Park and Brooklyn Center. The \$200,000 Clean Water Fund grant that is partially funding the project expires on December 31, 2016, so we are working to close out the project and collating the final numbers. The TAC will be reviewing them at its December 8, 2016 meeting.

The tables below show the estimated costs and revenues. Please note that the Commission's Cost Share Policy limits the levy to 25 percent of the project's final cost. The final project cost is less than the cost estimated at the time of certification, so only as estimated \$70,600 of the \$87,500 levy can be used for this project. The balance of the levy received will go to the Closed Projects Fund to be use on other projects. The good news to the cities is that the cities' share of the cost was much less than expected.

Table 1. Preliminary final costs and revenues, Connections at Shingle Creek project.

Cost	As Levied	As Bid	Est Final
Construction	\$240,000	\$235,000	\$239,480
Contingency	60,000	\$23,500	-
Easements	10,000*	-	4,000*
Engineering	40,000	40,000	35,500
TOTAL	\$350,000	\$298,500	\$278,980

*Easements were not required; the estimated final cost is for an additional interpretive sign at Monkey Falls.

Revenue	As Levied	As Bid	Est Final
Grant	\$200,000	\$200,000	\$200,000
Levy	87,500	74,600	70,600
Cities	62,500	23,900	9,280
TOTAL	\$350,000	\$298,500	278,980

The Commission does need to expend the \$200,000 grant by the end of 2016, so we recommend approval of the release of the \$200,000 upon invoice from the City and the balance of the levy due to Brooklyn Park as project lead agency when the final costs are reconciled.

Technical Memo



Responsive partner.
Exceptional outcomes.

To: Shingle Creek WMO Commissioners

From: Ed Matthiesen, P.E.
Diane Spector

Date: December 2, 2016

Subject: Revised Subgrant Agreement, Becker Park Project

**Recommended Commission
Action**

Authorize execution of the revised Subgrant Agreement with the City of Crystal.

In October 2016 the Commission approved a subgrant agreement with the City of Crystal to being design work on the Becker Park Infiltration Project. In this agreement, the Commission agreed to reimburse the City from the Clean Water Fund grant received for the project for a series of tasks associated with preliminary design. One of the tasks was to perform a Phase 1 environmental site assessment (ESA) and immediate surroundings to assess the potential for environmental risk. A Phase 1 looks historic and current land use, historic and current property records, environmental databases, and other data sources to identify and weigh potential environmental risks. If any potential issues are identified a Phase 2 environmental assessment should be considered to evaluate that potential more thoroughly.

The Phase 1 completed for the Becker Park project identified some issues that are recommended for more detailed assessment, including potential contamination from an old dry cleaners site that was acquired by the city and demolished as part of the expansion of the park, and a spill site adjacent to the park site.

The original subgrant agreement specified that the Commission would reimburse the City for the cost of the Phase 1 ESA but did not specifically note that if a Phase 2 was required, that, too, would be eligible for reimbursement. Since a Phase 2 is necessary to complete the preliminary design and feasibility study, staff recommends that the Commission also reimburse the City for its cost, which is estimated as \$20-22,000.

The Commission's attorney is drafting the revised agreement, which will be available at the December 8, 2016 meeting.



Outlet of Lower Twin Lake into Ryan Creek and location of fixed carp-tracking antenna.



Tax-forfeited parcel managed by City of Robbinsdale.

Technical Memo



Responsive partner.
Exceptional outcomes.

To: Shingle Creek/West Mississippi WMO Commissioners

From: Ed Matthiesen, P.E.
Diane Spector

Date: December 2, 2016

Subject: Approve MOU with City of Robbinsdale
Twin Lake Carp Management Project

Recommended Commission Action	Authorize execution of the Memorandum of Understanding with the City of Robbinsdale.
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The Twin Lake Carp Management project includes tracking the movement of carp both within the Twin Lake chain and any movement out of the chain downstream through Ryan Creek to Ryan Lake and Shingle Creek. Tracking within the chain is accomplished with a mobile antenna from a boat. Tracking movement out of the chain will be done using a stationary antenna placed on the shore at the outlet of Lower Twin Lake into Ryan Creek. This antenna will log any time a tagged carp swims past.

The antenna and the associated equipment box will be placed on a parcel of tax-forfeited land that is managed by the City of Robbinsdale. The City has requested that the Commission enter into a Memorandum of Understanding (MOU) that sets forth conditions of use. The Commission's attorney has drafted the attached MOU, which will be considered by the Robbinsdale City Council on December 6, 2016. To access the parcel staff will need to cross private property, and we have been in contact with the property owner to secure his permission.



Outlet of Lower Twin Lake into Ryan Creek and location of fixed carp-tracking antenna.



Tax-forfeited parcel managed by City of Robbinsdale.

**MEMORANDUM OF UNDERSTANDING BETWEEN SHINGLE CREEK
WATERSHED MANAGEMENT COMMISSION AND THE CITY OF ROBBINSDALE**

THIS MEMORANDUM OF UNDERSTANDING (“MOU”) is made and entered into this ___ day of _____, 2016, by and between the Shingle Creek Watershed Management Commission, a joint powers watershed management organization, (“Commission”) and the City of Robbinsdale, a Minnesota municipal corporation (“City”). The Commission and the City may hereinafter be referred to individually as a “party” or collectively as the “parties”.

WHEREAS, the City manages approximately 0.29 acres of property (PID: 1011821340112) located within the City that is legally described as Lots 8 thru 13, inclusive, Block 1, Southbrook Townhouses, Hennepin County, Minnesota (“Property”);

WHEREAS, the Commission has undertaken a project on Upper, Middle, and Lower Twin Lakes to develop a population estimate and track the movement of carp as part of determining the effect of carp on submerged aquatic vegetation, turbidity of the water, and related impacts to water quality (“Project”);

WHEREAS, as part of the Project, the Commission needs to place and maintain a monitoring station on the Property that will consist of a large metal job security box (3x3x3 foot cube), two 3-foot tall antennae, and a cable running from the box to the antennae (collectively, the “Equipment”);

WHEREAS, during the term of this MOU, which is projected to end by winter 2018, the Commission anticipates needing to enter the Property to access the Equipment once a week during the spring and once every two to four weeks during the summer and fall to replace batteries and to download data;

WHEREAS, the Commission will be responsible for placing, maintaining, and removing the Equipment and it has requested permission from the City to use the Property for those purposes; and

WHEREAS, the City is willing to allow the Commission to access and place the Equipment on the Property as part of the Project, provided such use is in accordance with the terms and conditions of this MOU.

NOW, THEREFORE, the parties hereby agree as follows:

1. Non-Exclusive License. The City hereby grants to the Commission a non-exclusive license to access and use the Property to place, maintain, and remove the Equipment as part of the Project, subject to all the terms and conditions of this MOU. The City represents to the Commission that it has the right to grant this license on the Property and to grant the other permissions provided herein. This MOU is subject to any other permissions or rights granted by the City and the City may grant others permission to use the Property, provided such uses do not unreasonably interfere with the placement, maintenance, or function of the Equipment. The City further agrees to not unreasonably interfere with the placement, maintenance, or function of the Equipment during the term

of this MOU. The Commission is solely responsible for obtaining any permissions that may be required from any neighboring owners to access the Property.

2. Permissive Use. The Commission agree that its use of the Property is with the City's permission and is not open, continuous, notorious or in any other manner supportive of a claim of adverse possession, prescriptive easement, or other entitlement to the Property. The parties acknowledge that this MOU is a license to use the Property for the purposes described herein, and it is not a lease or easement and does not confer any estate or interest in real property to the Commission.
3. Use. The use of the Property by the Commission, its officials, staff, agents, and contractors shall be solely for placing, maintaining, and using the Equipment during the period beginning upon execution of this MOU and continuing until this MOU is terminated as provided herein. The Commission shall place the Equipment on the Property in a location to minimize, to the extent reasonably possible, impacts on the adjacent property owners. The Commission shall also anchor the Equipment and take such other steps as may reasonably be needed to minimize the potential for the unauthorized moving or removing of the Equipment.
4. Placement and Maintenance of Equipment. The Commission shall be solely responsible for the placement, maintenance, and removal of the Equipment. The Commission shall be solely responsible for returning any areas of the Property disturbed during placement and removal of the Equipment to their original condition within 30 days of placing or removing the Equipment. The parties understand and agree the work to place, maintain, and remove the Equipment will be carried out by contractors who may access the Property under this MOU.
5. Notice Prior to Placement. The Commission shall provide written notice to adjacent property owners and the City at least 10 days prior to placing the Equipment on the Property. The notice shall, at a minimum, explain the Project, the proposed use of the Property, how often the Property will be accessed, and identify a contact person, with contact information, for the Project. The notice shall be sent to the person or entity identified as the taxpayer of the property on Hennepin County's online property records.
6. Property Maintenance. The Commission shall be responsible for cutting the grass and controlling noxious weeds in the area immediately surrounding the Equipment to the extent and in a manner similar to the cutting and weed control performed by the City on the remainder of the Property.
7. Termination. The term of this MOU shall continue until the Commission removes the Equipment, unless it is terminated earlier as provided in this Section. This MOU may be terminated upon the mutual agreement of the parties, or by the City upon 90 days' notice of a material breach by the Commission of the terms of this MOU if the Commission fails to correct the items of breach prior to the expiration of the notice period. This MOU shall be deemed terminated upon transfer of the Property to private ownership. The City shall notify of the Commission as soon as reasonably possible if it receives notice the Property is being auctioned or is otherwise being proposed for sale.

8. Property Restoration. Within 30 days from termination of this MOU, the Commission shall be responsible for removing the Equipment from the Property and restoring any portion of the Property disturbed by its use to at least the same condition the Property was in prior to the Commission's use under this MOU. The Commission shall take photographs of the portions of the Property it intends to use pursuant to this MOU prior to placing the Equipment to help establish the undisturbed condition of the Property. The Commission shall provide copies of the photographs to the City within 10 days of taking them. Nothing in this MOU shall require the Commission to restore any portion of the Property not actually used by the Commission or to restore the Property to a condition better than existed prior to the Commission's use.

9. Indemnification. The Commission will hold harmless, indemnify and defend the City, its officials, employees, and agents against any and all claims, expenses, and liabilities incurred, including reasonable attorneys' fees, arising out of, or in any way related to, the acts or omissions of the Commission, its staff, agents, or contractors in using the Property for the placement and maintenance of the Equipment. This provision shall not be deemed as a waiver of any statutory immunities or liability limits available to any party under law.

10. Disclaimer of Warranty. The City makes no representation or warranty as to the suitability of the Property for use by the Commission and no such representation, warranty, or any other representations are made by the City or shall be implied by operation of law or otherwise. The Commission accepts the Property in an as-is, where-is condition with all faults, defects, and deficiencies.

11. Entire Agreement. This MOU contains the entire understanding of the parties regarding the matters addressed herein. No modifications to this MOU are effective unless in writing and signed by all parties.

IN WITNESS WHEREOF, the parties have caused this MOU to be duly executed as of the day and year first above written.

SHINGLE CREEK WATERSHED COMMISSION

By: _____
Its Chair

By: _____
Its Secretary

CITY OF ROBBINSDALE

By: _____
Its Mayor

By: _____
Its Manager

From: Tony Brough [<mailto:Tony.Brough@hennepin.us>]
Sent: Monday, November 28, 2016 3:04 PM
Subject: AIS Grant Application Process is Open!!! No Match required!!!

One of the guidelines/programs for Hennepin County's State Aquatic Invasive Species funding is our "[AIS Prevention Grant Program](#)." This is the third round and allows us to work on a variety of issues with stakeholders throughout the county. I view it as a way to share with the county how you feel we should be utilizing the funding.

The application process is very straight forward. Keep your application to the point and clear on what you want to accomplish. The main focus needs to be "[AIS prevention](#)," but there are several different categories that are eligible. Applications are due **January 20, 2017**. Late January, I will get a diverse review committee together. They rank the projects and give me a recommendation for which projects to fund. Then we are off and running to complete the approval and contract process before spring ☺

The great new is **NO MATCH IS REQUIRED**. With that said, applications that leverage other funding, expand from an existing programs, or are innovative typically rank higher. We would like to allocate **up to \$300,000** this round. Eligible recipients include local government agencies, nonprofit organizations, public companies and institutions, and private for-profit companies.

Go to the web page: www.hennepin.us/aisprevention and submit the application and the budget forms to me (tony.brough@hennepin.us)

I am definitely available to discuss project ideas (Tony Brough 612-348-4378).

 If I have several applications interested in either of these two projects, I will probably take the committee's recommendation on which to fund and lump them into one countywide project. Please contact me if you want to discuss either of these in more detail (612-348-4378).

- **Public Access redesign.** The county has done some pilot projects at the North Arm and the Spring Park public boat accesses on Lake Minnetonka and added some new signage at Lake Sarah in the past. I have seen versions of this new signage popping up throughout the state. Your access redesign does not have to mimic these plans. The whole idea is that these are pilot projects. If you have new ideas or thoughts or even if you want to try similar redesigns, we would like to assist. This can include traffic flow changes, better signage...basically anything that will educate or motivate the users at the access to perform the necessary and simple AIS prevention steps.
- **Programmable Message Boards.** The county recently installed the first 10x15 programmable message board at a Public Boat Access (Spring Park, Mtkka). This is a unique multi-partner project that includes the Sherriff department, Emergency management, the LMCD, and the state AIS aid funding. The concept is that the county purchases and installs the message board, you pay for the electricity and any maintenance (fairly minor costs), and the county gets 50% of the time for AIS prevention messaging and you get 50% of the time for your preferred messaging. The agreement would be for 20 years. You own the sign. The software is getting really easy these days for changing messages. This does not necessarily have to be at a public access, but located where AIS prevention messaging is effective. I attached one picture of what the Spring Park message board looks like. Feel free to call me to discuss or to view the numerous messages we currently display.

SHINGLE CREEK / WEST MISSISSIPPI WATERSHED MANAGEMENT COMMISSION
MONTHLY COMMUNICATION LOG
November 2016
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Date	From	To	SC	WM	Description
11-2-16	Phone call Gretchen Schrader, Westwood Professional Services	Ed Matthiesen, Wenck Assocs.	X	X	re: redevelopment rules interpretation
11-4-16	Email Jon Fahning, Water in Motion	Ed Matthiesen	X		re: water reuse at Centerbrook Golf Course
11-2-16	Cathy Nelson, Plymouth resident	Diane Spector, Wenck Assocs.	X		Questions regarding Bass Lake, background, potential BMPs, general lake water quality questions
11-7-16	Meeting Rich Koechlein and Jon Fahning, Water in Motion	Ed Matthiesen	X		re: water reuse at Center Brook Golf Course
11-11-16	Email and phone call Laura Messman, WSB	Ed Matthiesen	X	X	re: proposed Brooklyn Center pond maintenance requirements
11-11-16	Phone call Robert Nelson, Robert Nelson Building	Ed Matthiesen	x		re: possible refund of project review SC2016-04
11-16-16	Mark Ray, City of Crystal	SC WMC	X		2017 City Cost-Share application for Phase 16 street improvement project
11-17-16	Phone call Chris Long, Stantec	Ed Matthiesen	x		Rappaport parking lot pavement work related to Commission rules.
11-17-16	Phone call Allison Hampton, Metro Transit Blue Line	Ed Matthiesen		x	Rules related to wetland hydrologic modeling
11-22-16	Email R. McCoy, City of Robbinsdale	Ed Matthiesen	x		Rate control for city street project
12-1-16	Phone call from daughter of Robbinsdale resident	Diane Spector	X		Her mother lives on Lower Twin Lake, has a sump pump that has been running like crazy this year. She talked with other neighbors and they report similar sump pump issues. I assured her no changes have been made to the outlet elevation, just a very wet year. Referred to R. McCoy.,