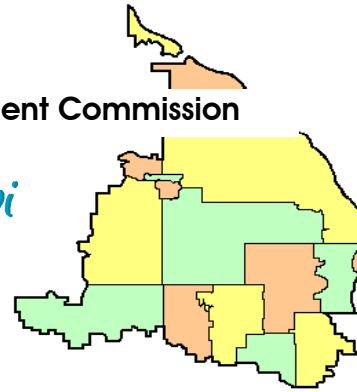


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February 23, 2016

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

The agenda and meeting packet are available on the Commission's web site. The direct path is <http://www.shinglecreek.org/pages/Meetings/>

Dear Commissioners:

The regular meetings of the Shingle Creek and West Mississippi Watershed Management Commissions will be held **Thursday, March 10, 2016**, at Clubhouse 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 Beverly at bllove@jass.biz to confirm whether you or your Alternate will be attending the meeting. Your meal choices are

- _____ **Chef Salad.** Fresh lettuce, Julienne Ham, Turkey, Swiss & Cheddar Cheese, Plum Tomatoes, Hardboiled Egg, House Dressing
 _____ Dressing on the side
- _____ **Cajun Meatloaf Melt.** Housemade Cajun-style Meatloaf with Swiss Cheese, sautéed onions and stone-ground honey mustard sauce on Marble Rye with side of Whiskey Thyme Gravy
- _____ **Grilled Salmon.** Grilled Salmon on bed of rice with Roasted Red Pepper and Fennel Sauce, side of sautéed Seasonal Vegetables
- _____ I will be attending but DO NOT want a meal.
- _____ No one from our community will be attending the meeting on Thursday, March 10.

Signed _____

The Clubhouse at Edinburgh is now requiring reservations eight days before the event. We must make final reservations by **noon, Tuesday, March 1, 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.

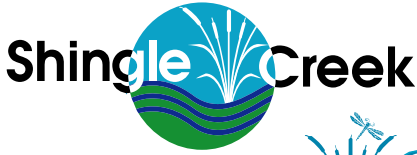
Regards,



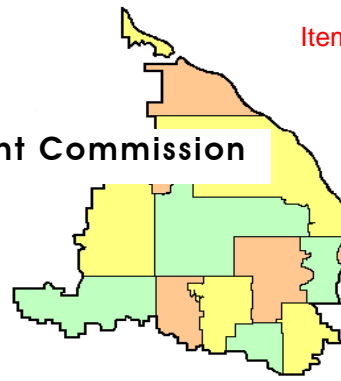
Judie A. Anderson
 Administrator

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

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Watershed Management Commission



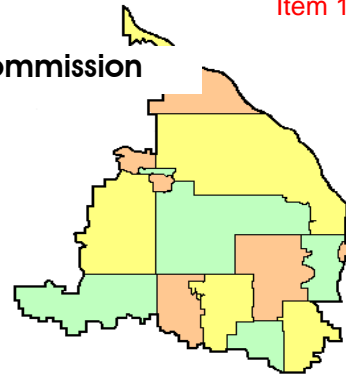
Item 1c

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

1. Call to Order
 - SCWM a. Roll call.
 - √ SCWM b. Designate chair for meetings.
 - √ SC c. Approve agenda.*
 - √ WM d. Approve agenda.*
 - √ SC e. Approve minutes of last meeting.*
 - √ WM f. 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.*
- SCWM 3. Open forum.
 - a. Mike Opat, Hennepin County Commissioner.
4. Project Reviews.
 - √ SC a. SC2016-04 Brooklyn Park 2016 Street Reconstruction.*
5. Water Quality.
 - √ SCWM a. Potential revisions to Rules and Standards.*
 - √ SC b. Shingle Creek RiverWatch and WHEP Agreement.*
 - √ WM c. West Mississippi RiverWatch and WHEP Agreement.*
 - SCWM d. Water Summit Update.*
- SCWM 6. Watershed Management Plan.
7. Education and Public Outreach.
 - SCWM a. WMWA Update.*
 - SCWM 1) Website Analytics.*
 - √ SCWM b. WMWA 2015 Annual Report.*
 - c. Next WMWA meeting - 8:30 am, Tues., April 12, 2016, Plymouth City Hall.
8. Grant Opportunities and Updates.
9. Communications.
 - a. Communications Log.
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



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MINUTES
Regular Meetings
February 11, 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 Wayne Sicora, Vice Chair, and Karen Jaeger, Secretary/Treasurer, respectively, on Thursday, February 11, 2016, at 12:45 p.m., at the Clubhouse at Edinburgh, USA, 8700 Edinbrook Crossing, Brooklyn Park, MN.

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

Not represented: Minneapolis and Osseo.

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

Not represented: Champlin and Osseo.

Also present were: David Vlasin and Andrew Hogg, Brooklyn Center; Jesse Struve, Brooklyn Park; Todd Tuominen, Champlin; Mark Ray and Burt Orred, Crystal; Rick Lestina, Maple Grove; Bob Paschke, New Hope; Leah Gifford and Ben Scharenbroich, Plymouth, Richard McCoy, Robbinsdale; and Tom Mathisen, guest.

II. **Agendas and Minutes.**

Motion by Jaeger, second by Roach to designate Sicora as chair of this meeting. *Motion carried unanimously.*

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

Motion by Roach, second by Jaeger to approve the **West Mississippi agenda**. * *Motion carried unanimously.*

Motion by Jaeger, second by Roach to approve the **minutes of the January 14, 2016 Shingle Creek regular meeting*** with the following correction:

There being no further business before the Shingle Creek Commission,
motion by ~~Jaeger~~Moore, second by Polzin to adjourn.

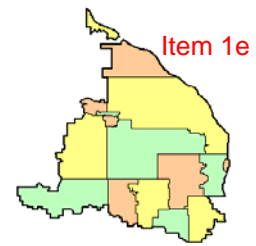
Motion carried unanimously.

Motion by Roach, second by Jaeger to approve the **minutes of the January 14, 2016 West Mississippi regular meeting*** as written. *Motion carried unanimously.*

III. **Finances and Reports.**

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

*items are included in meeting packet



Motion by Jaeger, second by Polzin to approve the **Shingle Creek February claims.*** Claims totaling \$58,106.99 were *approved by roll call vote*: ayes – Mulla, Roach, Moore, Jaeger, Wills, Polzin, and Sicora; nays – none; absent – Minneapolis and Osseo.

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

Motion by Jaeger, second by Mulla to approve the **West Mississippi February claims.*** Claims totaling \$20,088.15 were *approved by roll call vote*: ayes – Mulla, Roach, and Jaeger; nays – none; absent – Champlin and Osseo.

IV. Open Forum.

Members remembered **Charlie LeFevere**, former Commission attorney, who died on January 30, 2016. Memorials may be sent to St. Olaf College or Pheasants Forever.

V. Election of Officers.

A. Shingle Creek. Moore, chair of the Nominating Committee, brought forth the name of Polzin who has expressed his interest in serving as Chair. Sicora also expressed his interest in that position. Both spoke to their past service on the Commission and their desire to serve as Chair. By a show of hands, Polzin was elected Chair. Motion by Jaeger, second by Wills to elect Roach, Vice Chair; Jaeger, Secretary, and Moore, Treasurer. *Motion carried unanimously.*

B. West Mississippi. Motion by Roach, second by Jaeger to elect Gerry Butcher, Champlin, Chair; Mulla, Vice Chair; and Jaeger, Secretary/Treasurer. *Motion carried unanimously.*

C. Annual Appointments.

Motion by Jaeger, second by Moore to approve the following annual appointments: Deputy Treasurer – Judie Anderson; auditor – Johnson & Co.; official depositories - US Bank and the 4M Fund; and official newspaper – *Sun Post*. *Motion carried unanimously.*

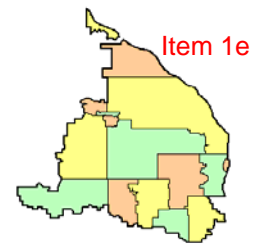
Motion by Mulla, second by Jaeger to approve the annual appointments listed above. *Motion carried unanimously.*

VI. Project Reviews.

A. SC2016-03 CSAH 81 Reconstruction, Brooklyn Park.* Transportation improvements on CSAH 81 from north of 63rd Avenue to north of West Broadway Avenue. The proposed project extends approximately 1 mile (approximately a 34-acre construction footprint) from 63rd Avenue to West Broadway Avenue. Following development, the site will be 53.1% impervious, an increase of 2.1 acres. A complete Project Review application was received on February 2, 2016.

To comply with the Commission's water quality treatment requirement, the site must provide ponding designed to NURP standards with dead storage volume equal to or greater than the volume of runoff from a 2.5" storm event, or BMPs providing a similar level of treatment - 80-85% TSS removal and 50-60% TP removal. Runoff from the site will be routed to a series of existing and proposed stormwater basins. Runoff from north of Broadway Avenue will flow into existing stormwater infrastructure. The impervious area north of Broadway Avenue will be decreased to guarantee the existing BMPs can accommodate the runoff. A water quality sump has been added to provide additional treatment. The water quality sump was found to remove 54% of TSS for the area and should be increased to an 8' diameter structure with a 6' sump to increase the removal efficiency to 71%. A new wet pond will be constructed to provide rate control, volume management, and water quality improvements from TH 94 to Broadway Avenue. The wet pond will act as storage before flowing into a filtration basin. The filtration basin will reduce sediment and provide rate control between TH 94 and Broadway Avenue. This basin will

*items are included in meeting packet



have 6" drain tile below a layer of filter topsoil consisting of 70% sand and 30% compost. MnDOT seed mixture 33-261 containing Big Bluestem, Fringed Brome and Virginia Wild Rye seeds is used for the infiltration basin. Finally, runoff from the southern extent of the project will flow offsite into the CSAH 81 corridor where existing BMPs from a previous phase will be able to accommodate runoff. The applicant meets Commission water quality treatment requirements.

Commission rules require that site runoff be limited to predevelopment rates for the 2-, 10-, and 100-year storm events. Runoff from the site will be routed to a series of existing and new stormwater basins. Runoff from the south will flow offsite using the CSAH 81 corridor and existing BMPs. Runoff from the north will flow offsite through the 60" stormwater trunk. Runoff from TH 94 to West Broadway Avenue will flow to the new stormwater basins. The applicant meets the Commission's rate control requirements.

Commission rules also require the site to infiltrate 1.0" of runoff from new impervious area within 48 hours. The new impervious area on this site is 2.1 acres, requiring that 0.23 acre-feet be infiltrated within 48 hours. The applicant proposes to use the existing BMPs along the corridor, and build a wet pond and a filtration basin that have the capacity to filtrate the required volume within 48 hours, meeting Commission requirements.

The NWI identifies 10 wetlands or wet ditches along the project corridor. There will be permanent impacts to the wetlands which will be mitigated at a ratio of 2:1 in compliance with WCA and USACE standards, by purchasing credits from a wetland mitigation bank. Wetland buffers, a minimum of 20 feet in width and averaging 30 feet in width, are provided. The applicant will meet the requirements for seven wetlands. Wetland W-4, W-7, and W-10 were requested to have an alternate buffer strip requirements due to the limited space between the proposed roadways and wetlands. The alternate buffer strip around wetland W-4 is requested to be less than the 20 foot minimum and 30 foot average buffer width due to the constraints of the wetland and the adjacent roadways. The alternate buffer strip proposed for wetland W-7 will have a minimum buffer width of 17 feet, and an average buffer width of 51 feet. The alternate buffer strip for wetland W-10 is proposed to have a minimum buffer width of 16 feet and an average buffer width of 45 feet. Shingle Creek is the WCA LGU in Brooklyn Park. Due to limited options to move the road to meet the minimum buffer width and because the average is above the Commission's requirement the buffer meets the Commission rule.

There are no Public Waters on this site. There is no floodplain on this site, and there will be no changes in the floodplain. An erosion control plan was submitted with the project review, which includes perimeter silt fence, inlet protection, slope checks, and native seed specified on the pond slopes. The erosion control plan meets Commission requirements.

Public hearings on the project were conducted on August 13, 2015 and January 14, 2016, meeting Commission public notice requirements.

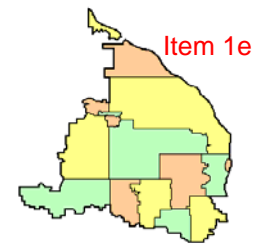
Motion by Jaeger, second by Polzin to advise the City of Brooklyn Park that project SC2016-03 is approved with two conditions.

1. Increase the size of sump structure 276 to have an 8' diameter with a 6' sump and recommend including a SAFL Baffle or Preserver.
2. Note on Plan: Conduct a post-construction infiltration test on the filtration basin to verify the filtration rates used in the design. If not met, make corrections as necessary to meet the design filtration rates.

Motion carried unanimously.

B. WM2016-01 Star Exhibits & Environments, Brooklyn Park.* Construction of an approximately 200,800 square foot commercial building and associated parking space on a 13.31 acre undeveloped pervious site located in the northwest corner of Hampshire Lane and 93rd Avenue. Following development the site will be

*items are included in meeting packet



67.7% impervious, an increase of 9.02 acres. A complete project review application was received on January 20, 2016.

To comply with the Commission's water quality treatment requirement, the site must provide ponding designed to NURP standards with dead storage volume equal to or greater than the volume of runoff from a 2.5" storm event, or BMPs providing a similar level of treatment - 80-85% TSS removal and 50-60% TP removal. Infiltration of the first 1.3" runoff from the site within 48 hours also meets Commission requirements for water quality.

Runoff from the site is proposed to be routed through a system of two infiltration basins. Runoff from the roof and parking areas south of the proposed building will be directed to the south infiltration basin, Runoff will outlet into the western infiltration basin above an elevation of 866.56'. Additionally, runoff from the north portion of the site will be routed directly into the west infiltration basin. The west infiltration basin has an outlet elevation of 866.5', where it outlets into municipal stormwater systems. The proposed pipe channel north of the building will receive flow from the parking lot and will be routed directly into the west basin, providing an opportunity for high sediment levels. The Commission requests the installation of a sump catch basin prior to entry into the west basin in order to meet water quality treatment requirements.

Commission rules require that site runoff be limited to predevelopment rates for the 2-, 10-, and 100-year storm events. Runoff from the site will be routed through infiltration basins to the south and west of the proposed building before outletting into municipal stormwater systems along Hampshire Ave. The applicant meets the Commission's rate control requirements.

Commission rules require the site to infiltrate 1.0" of runoff from new impervious area within 48 hours or filtration of 1.3". The new impervious area on this site is 9.02 acres, requiring that 42,565 CF be infiltrated within 48 hours to meet the 1.3" requirement. The applicant has the capacity to infiltrate the required volume within 48 hours, meeting Commission requirements.

The NWI does not identify any wetlands on site. There are no Public Waters or floodplain on this site. The low floor elevations of the buildings are at least two feet higher than the high water elevation of the infiltration basins, meeting Commission requirements.

An erosion control plan was submitted with the project review, and includes rock construction entrances, perimeter silt fence, slope checks, and native seed specified on the pond slopes. The Commission requests the installation of silt fence at the HWL of the infiltration basins, once constructed, to prevent compaction or inadvertent alteration during the remainder of construction activities in order to meet Commission requirements.

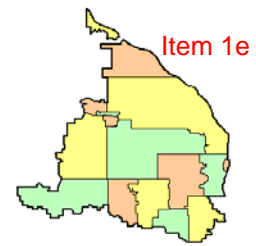
Public hearings on the project are scheduled as part of Planning Commission and City Council review of this project on February 10, 2016 and February 22, 2016, respectively. This meets Commission public notice requirements.

Motion by Mulla, second by Roach to advise the City of Brooklyn Park that project WM2016-01 is approved with four conditions.

1. Show silt fence on grading plan along the HWL contour of the basins.
2. Include a sump manhole at CBMH #208 specific to EPA guidance for pretreatment of stormwater before discharging into the west infiltration basin.
3. Submit an O&M agreement to the City of Brooklyn Park specification.
4. Conduct a post-infiltration test to ensure infiltration.

Motion carried unanimously.

*items are included in meeting packet



C. WM2016-02 94th and Colorado Avenues North, Brooklyn Park.* Construction of new 94th Avenue and Colorado Avenue roadways, trails and infiltration ponds. 2,285 feet of new roadway with new BMPs will be installed to treat and attenuate stormwater runoff from the project site. Following development the site will be 70% impervious, an increase of 2.6 acres. The impervious area includes 3.4 acres for the current roadway project, 0.8 acres for future 94th Avenue extension, and 8.4 acres for future development. A complete project review application was received January 28, 2016.

To comply with the Commission's water quality treatment requirement, the site must provide ponding designed to NURP standards with dead storage volume equal to or greater than the volume of runoff from a 2.5" storm event, or BMPs providing a similar level of treatment - 80-85% TSS removal and 50-60% TP removal. Infiltration of the first 1.3" runoff from the site within 48 hours also meets Commission requirements for water quality.

Runoff from the site is proposed to be routed to one of three interconnected infiltration basins. The 94th Avenue Infiltration Basin will receive stormwater runoff from 94th Avenue from the high point just west of Zane Avenue to the westerly limits of the project via a proposed drainage system. Excess stormwater from the 94th Avenue Basin discharges into the Colorado Infiltration Basin.

The Colorado Avenue Basin receives stormwater runoff from Colorado Avenue from the high point just south of 94th Avenue to the high point just north of 93rd Avenue via a proposed drainage system. Excess stormwater from the Colorado Avenue Basin discharges into the Zane Avenue Infiltration Basin. The Zane Avenue Basin receives stormwater runoff from 94th Avenue from the high point just west of Zane Avenue to the intersection of Zane Avenue via a proposed drainage system. The basin also treats a portion of Zane Avenue to the north of 94th Avenue. Any overflow from the Zane Avenue Basin will discharge to the existing stormwater sewer under Zane Avenue. All new basins are designed to meet infiltration requirements, reduce sediment load, and provide rate control. The applicant meets the Commission's water quality treatment requirements.

Commission rules require that site runoff be limited to predevelopment rates for the 2-, 10-, and 100-year storm events. Runoff from the site is directed to one of three proposed infiltration basins, which will ultimately exit the site through an existing 24" RCP at the northwest corner of 93rd and Zane Avenues. The applicant meets the Commission's rate control requirements for ultimate discharge from the Zane Avenue Basin to the existing storm sewer system.

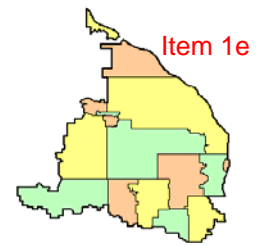
Commission rules require the site to infiltrate 1.0" of runoff from new impervious area within 48 hours. The new impervious area on this site is 12.6 acres, requiring that 1.05 acre-feet be infiltrated within 48 hours. The applicant proposes to construct three infiltration basins that will have the capacity to infiltrate the required volume within 48 hours, which meets Commission requirements. The applicant shall conduct a post-construction infiltration test on the infiltration basin to verify the infiltration rates used in the design. If not met, corrections will be made to meet the design infiltration rates.

The NWI does not identify any wetlands on site. West Mississippi is LGU for WCA administration. There are no Public Waters on this site. There is no floodplain on this site according to FEMA. The low floor elevations of the buildings are at least two feet higher than the high water elevation of the infiltration basins according to Atlas-14 precipitation, meeting Commission requirements. There is no known contaminated soil/groundwater according to the project engineer. Infiltration will not cause detrimental effects to the groundwater.

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

A public hearing on the project has been conducted as part of Planning Commission and City Council review of this project, meeting Commission public notice requirements.

*items are included in meeting packet



Motion by Roach, second by Jaeger to advise the City of Brooklyn Park that project WM2016-02 is approved with one condition.

1. Conduct a post-construction infiltration test on the infiltration basin to verify the infiltration rates used in the design. If not met, make corrections as necessary to meet the design infiltration rates.

Motion carried unanimously.

VII. Water Quality.

A. In their February 4, 2016 memo Staff presented the proposed **2016 Shingle Creek monitoring program**.* The proposal is consistent with the program outlined in the Third Generation Watershed Management Plan. It includes routine monitoring as well monitoring to obtain data to be used to evaluate progress toward the TMDLs. In 2016 the Commission will complete 5-year reviews of progress toward the Bass and Eagle Lake chains TMDLs and perform monitoring on Meadow and Success Lakes.

The Commission has routinely performed **stream monitoring** for water quantity and various water quality chemical parameters in Shingle Creek since 1996 at two locations, one downstream of Humboldt Avenue in Minneapolis, **SC-0** and one upstream of Zane Avenue in Brooklyn Park, **SC-2**. In 2007, **SC-2** was moved upstream to just downstream of Brooklyn Boulevard (**SC-3**) in order to obtain a better stage-discharge relationship.

In 2015 Bass Creek, **BC-1**, was added as a third site to be routinely monitored for water quality and conductivity. Monitoring at **BC-1** will help gain better information about water quality in Bass Creek, and obtain baseline conductivity and chloride data in advance of the Bass Creek chloride TMDL, which was completed as part of the Metro Chloride TMDL. \$31,250 is included in the budget for stream monitoring in 2016.

A fourth site at Queen Avenue in Minneapolis, **SC-1**, is monitored for flow by the US Geological Survey (USGS) as a part of its ongoing National Assessment of Water Quality (NAWQA). Except for continuous conductivity and temperature, chemical parameters are no longer routinely measured at **SC-1**. The Queen Avenue data are available on-line real-time at <http://waterdata.usgs.gov/mn/nwis/uv?05288705>. The Commission also partners financially with the USGS in the operation of the Queen Avenue monitoring station. That continued participation (\$3,750) has been approved by the Commission separately.

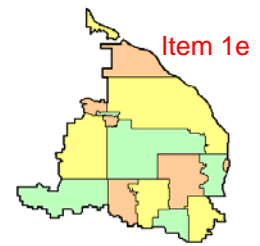
Student volunteers provide stream **macroinvertebrate monitoring** through Hennepin County Environment and Energy's RiverWatch program at three locations on Shingle Creek. The Commission contracts with Hennepin County for this service. The contract for 2016 is currently being developed. Three Rivers Park District occasionally monitors an additional site on the creek in the North Mississippi Regional Park. \$3,000 is included in the budget for RiverWatch.

The **in-stream conductivity sensor** at **SC-0** is broken and should be replaced. This instrument is used to estimate chloride concentration at the outlet of the creek and to estimate chloride loads. \$2,000 is included in the budget for this item.

To track the effectiveness of BMP implementation in improving lake water quality, the Commission performs **intensive lake monitoring** to supplement the volunteer surface monitoring. Because the Commission's goals include achieving delisting of lakes that meet their TMDLs and water quality, the Third Generation monitoring plan includes more rigorous lake monitoring sufficient to demonstrate to the MPCA and EPA that conditions have improved. For 2016, Meadow and Success Lakes will be monitored twice monthly, including surface water samples and water column temperature and DO profiles. Magda and Pomerleau are scheduled for 2017, at which point the first intensive monitoring cycle will be complete. The budget for intensive lake TMDL monitoring is \$9,700.

A component of the intensive monitoring is obtaining or updating surveys of **lake aquatic vegetation**. Aquatic vegetation plays an important role in water quality and biotic integrity, and that vegetation

*items are included in meeting packet



community can change as water quality changes. For 2016 it is proposed that surveys for Meadow and Success Lakes be updated in tandem with the intensive monitoring. Cost of the surveys is \$7,900.

Intensive lake monitoring on Eagle Lake in 2015 identified internal loading as a potentially important source of phosphorus in the overall nutrient budget. The TMDL prepared in 2010 for Eagle Lake used model residual to estimate internal loading. However, recent lake and watershed monitoring suggest that internal loading may be a larger percentage of the overall phosphorus budget than previously thought. Results from **sediment coring** will be used to verify the internal phosphorus loading that was observed during the 2015 intensive sampling effort. \$4,400 is included in the budget for Eagle Lake sediment coring.

The Commission has participated in Metropolitan Council's **Citizen Assisted Lake Monitoring Program (CAMP)** since 1993. CAMP trains volunteers to take surface water samples and make water quality observations using standardized reporting techniques and forms. This program is an NPDES Education and Outreach BMP. Lakes are monitored on a rotating schedule. Larger lakes are monitored every other year, smaller lakes every three years. In 2016 CAMP volunteers will monitor Crystal, Ryan and the Twin Lake chain at a budgeted cost of \$3,800.

In 2016 the water level in **Wetland 639W** will be monitored at both the outlet weir and the overflow weir. Five water quality samples will be collected to estimate phosphorus loading from the wetland to Upper Twin Lake. Budgeted amount is \$2,000.

The Commission began participating in Hennepin County Environment and Energy's Wetland Health Evaluation Program (WHEP) in 2007. Adult volunteers monitor vegetative diversity and macroinvertebrate communities. In 2016 two wetlands will be monitored at a cost of \$2,000.

Motion by Polzin, second by Moore to approve the 2016 Shingle Creek monitoring program as outlined. *Motion carried unanimously.*

B. In their February 4, 2016 memo Staff presented the proposed **2016 West Mississippi monitoring program**.* The proposal is consistent with the program outlined in the Third Generation Watershed Management Plan and includes ongoing, routine **stream monitoring** of flow and water quality at two sites per year on a rotating basis. In 2016 the Environmental Preserve and Mattson Brook sites will be monitored. Continuous flow will be monitored using pressure transducers and water quality will be analyzed through field parameter measurements, periodic grab samples and storm composite sampling using automated samplers purchased by the Commission in 2010. The 2016 budget for this activity is \$17,000.

Student volunteers from Minneapolis South High School provide stream **macroinvertebrate monitoring** through Hennepin County Environment and Energy's RiverWatch program at one location in West Mississippi – Mattson Brook. The 2016 contract with Hennepin County is currently being developed. \$1,000 is included in the budget for RiverWatch.

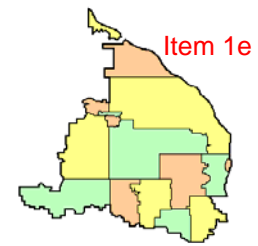
The 2016 budget includes \$2,000 to monitor two wetlands through Hennepin County Environment and Energy's Wetland Health Evaluation Program (WHEP). Staff will work with the cities to identify the sites for 2016.

Motion by Mulla, second by Jaeger to approve the 2016 West Mississippi monitoring program as presented. *Motion carried unanimously.*

C. The Technical Advisory Committee (TAC) met on February 4, 2016 to discuss Cost Share applications, CIP revisions, requests for subwatershed assessments, and grant projects.*

1. For budget year 2016 Shingle Creek levied \$100,000 for **cost-share projects** and **West Mississippi levied \$50,000**. In December cities were requested to submit applications to the TAC to consider and recommend to the Commissions. One application was received, from the City of Brooklyn Park.* The request is for

*items are included in meeting packet



\$30,200 to share the cost of adding sumps with SAFL baffles and a small pond to treat road runoff prior to discharge into Bass Creek. Because the project is not adding new impervious, the Commissions' rules do not require the City to incorporate water quality BMPs. Motion by Moore, second by Jaeger to approve Brooklyn Park's cost-share application. *Motion carried unanimously.*

No other applications were received. The application period will remain open until funds are exhausted. If no other cost-share projects are approved in 2016, the unexpended funds will roll over to 2017.

2. Proposed 2016 CIP Revisions. One project was submitted to the TAC to be added to the CIP. The City of Crystal requests to add the Becker Park Infiltration Project* to the 2018 CIP. This can be done through a Minor Plan Amendment as long as the County concurs. The procedure would be for the Commissions to initiate a Minor Plan Amendment, send notice to the cities and Hennepin County, and then the County will undergo its review and public hearing process. (See VIII., below.) Once that is completed (likely in June), the Commissions could adopt the Amendment. Motion by Moore, second by Sicora to initiate a Minor Plan Amendment to add the Becker Park Infiltration Project to the 2018 Shingle Creek CIP. The Commission's share of this \$2,500,000 project would be \$250,000, *Motion carried unanimously.*

3. Both Shingle Creek and West Mississippi budgets fund to complete one subwatershed assessment per year. The TAC received one request for a subwatershed assessment in 2016, from the City of Plymouth, to evaluate the area tributary to Pike Creek/Pike Lake.* The City of Minneapolis submitted a request for 2017 to complete an assessment in its drainage area. Motion by Polzin, second by Wills to approve completion of a subwatershed assessment in the Pike Creek/Lake drainage area in Plymouth. *Motion carried unanimously.* No requests were received from West Mississippi.

VIII. Watershed Management Plan.

Communication with Randy Anhorn, Hennepin County Environment and Energy, and Steve Christopher, Board of Water and Soil Resources, has determined the timeline for the County Board to set a public hearing date for the **proposed Minor Plan Amendment (MPA)**, approve the amendment and set maximum levies, and set the final levies will be as follows:

- Board Action Request (BAR) for public hearing submitted to County – April 15 or April 29
- BAR in committee on May 17 or June 14
- Board action to schedule public hearing on May 24 or June 21
- Public hearing held in committee on June 14 or June 28
- BAR for amendment approval and maximum levy submitted to County – June 16
- BAR in committee on July 19 – Commission representative must be present at this meeting
- Board action on amendment – July 28
- BAR for setting final levy submitted to County – September 23
- BAR in committee on October 25
- Board action on amendment – November 1

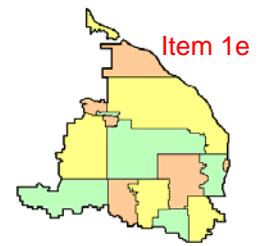
The Commissions' timeline will run concurrently.

IX. Education.

A. Included in the meeting packet was a draft of the **2015 NPDES Annual Report**. It describes the education and public outreach activities performed in 2015 in fulfillment of the Commissions' Third Generation Plan's Watershed Education and Public Outreach goals. The report formats information about 2015 activities in a way that will help the MS4s meet their reporting requirements. Information contained in this document can be inserted directly into the member cities' reports. Motion by Jaeger, second by Wills to accept the 2015 NPDES Annual Report. *Motion carried unanimously.*

Motion by Roach, second by Mulla to accept the 2015 NPDES Annual Report. *Motion carried unanimously.* Staff will transmit the report to the member cities.

*items are included in meeting packet



B. At the January meeting the Commissions considered an **education grant application*** from the Lower Twin Lake Association for \$1,000 to assist in purchasing and installing a floating island adjacent to an outfall on Lower Twin. The Commissioners requested more information before considering approval of the application; specifically, identification of a safe harbor, maintenance plan and exit plan. Matthiesen contacted the writer of the proposal regarding the Commissioners' concerns and drafted a memo with her responses.* Upon further discussion, **motion by Moore, second by Mulla to deny the application. Motion carried unanimously.**

Motion by Mulla, second by Jaeger to deny the application. Motion carried unanimously.

Staff will craft a letter to the Association with an explanation of the Commissions' action and proposing alternative suggestions, descriptions of other possible projects in the subwatershed that may offer greater water quality improvement, and including copies of the *Ten Things* brochure.

C. Fortin Consulting is seeking MPCA grant assistance to continue to host MPCA voluntary certification training classes and is requesting a **letter of support*** from the Commission. The classes are proposed to be offered to outdoor maintenance professionals at no or reduced cost to educate them in ways to reduce pollutants applied to roads, parking lots, sidewalks, and turf areas. The Commission would be responsible for hosting the classes and soliciting attendees. Funding would be taken from the Education budget. After discussion regarding Staff time associated with supporting this effort, **motion by Jaeger, second by Polzin to deny the request for a letter of support. Motion carried unanimously.** Personnel from the member cities will still have the opportunity to participate in the classes.

D. Website Update. Staff continues to populate the new website, www.shinglecreek.org. Commissioners are urged to visit the site and provide comments and suggestions for additions to Staff.

E. The next **West Metro Water Alliance (WMWA)** meeting is scheduled for March 8, 2016. Members continue to work on the new WMWA website, westmetrowateralliance.org, and the special project, *Pledge to Plant for Pollinators and Clean Water*. At the February meeting the Watershed PREP educators reported on the spring classes. They are having difficulty reaching some schools due to faculty turnover.

The WMWA 2015 Annual Report will be included in the March meeting packet.

[Wills departed 2:35 pm.]

X. Grant Opportunities and Updates.

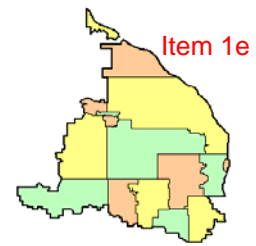
A. Becker Park Infiltration Project. The work plan associated with the \$725,000 CWF grant is due in a few weeks. The Crystal Park and Recreation Commission will be undergoing visioning for Becker Park in early 2016. As soon as the CWF grant funds are contracted (expected by March 2016) Crystal and Staff will begin a more detailed geotechnical analysis and groundwater and hydrological modeling of this large underground infiltration gallery.

B. Connections at Shingle Creek. This project is on hiatus until spring.

C. Public Art Reaeration Project. A Request for Qualifications (RFQ) has been drafted and will be sent to an invited group of artists. Staff and Forecast will review submittals and select the top three to interview with the selection committee. The committee will select one to three artists/teams to move to the design phase. After approval of the final designs, the artist(s) will be commissioned to create their installation. At this time installation is expected to be completed in spring/summer 2017, with project completion by December 30, 2017, the expiration date of the grant.

D. Iron/Biochar Enhanced Sand Filters Project. Staff are gathering survey and as-built information for each of the potential ponds, and product information for the in-catch basin and above ground filter options. Other possible pond locations include:

*items are included in meeting packet



1. MnDOT 45th Avenue Pond near Perry Ave N, Robbinsdale
2. Gaulke Pond, Crystal
3. Olson Middle School Pond, Minneapolis
4. Champlin Drive and Highway 169 Pond, Champlin

E. Twin Lake Carp Management. Staff are gathering information regarding the timing and specific procedures required by the DNR for the fish capture and release and tagging activities and getting firm quotes for the necessary equipment and supplies. A brief presentation of the project was made by Tom Langer, Wenck biologist, at the TAC's February 4 meeting. It can be viewed at <http://www.shinglecreek.org/tac-meetings.html>.

The grant includes funding for a robust community engagement process. This process could include enlisting lake association volunteers to accompany Staff on tracking runs; training volunteers to recognize and report invasive aquatic vegetation; enlisting volunteers to help as labor during the catch and clip and catch and count operations; offering introductory limnology and "Ask a Fish Biologist" workshops; and maintaining active Facebook and Twitter accounts to share ongoing monitoring and reporting observations.

XI. Communications.

A. Communications Log.* No action required.

B. The Commission was in receipt of a letter from the law firm of Eckland & Blando, LLP, requesting copies of records from 2000 to present relating to

1. Maintaining or changing or changes to the ordinary high water level in the Twin Lakes;
2. Surveys or investigations into the effect that any construction, renovation, or landscaping project may have had on drainage to or away from the Twin Lakes;
3. Surveys or investigations into the effect that any construction, renovation, or landscaping project may have had on the OHW level in the Twin Lakes.

Cities riparian to Twin Lakes also received this request. Staff will review their files and respond appropriately.

XII. Other Business.

Hennepin County Commissioner Mike Opat will attend the Commissions' March meeting.

XIII. Adjournment.

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

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

The meeting was adjourned at 2:45 p.m.

Respectfully submitted,

Judie A. Anderson
Recording Secretary
JAA:tim

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*items are included in meeting packet

SHINGLE CREEK WATERSHED MANAGEMENT COMMISSION

PROJECT REVIEW SC2016-04 Brooklyn Park 2016 Street Reconstruction

Owner: City of Brooklyn Park
5200 85th Ave N
Brooklyn Park, MN 55443
Attn: Jesse Struve

Engineer: Josh Eckstein, P.E.
Company: Bolton & Menk, Inc.
Address: 2638 Shadow Lane, Suite 200
Chaska, MN 55318

Phone: 952-448-8838
Fax: 952-448-8805

Purpose: Transportation improvements on Edgemont Blvd N, Edgemont Circle N, Decatur Ave N, Bass Creek Ave N, Northbrook Ave N, Northbrook Circle, and Cavell Ave N.

Location: (see Figure 1)

- Exhibits:**
1. Project review application and project review fee of \$1,100.00, dated February 17th, 2016, rcvd. February 24th, 2016.
 2. Site Plan, SWPPP, Removals, Grading, Storm Sewer, and Erosion Control, dated January 15, 2016, rcvd, February 24th, 2016

- Findings:**
1. The proposed project is the reconstruction on Edgemont Blvd N, Edgemont Circle N, Decatur Ave N, Bass Creek Ave N, Northbrook Ave N, Northbrook Circle, and Cavell Ave N approximately a 13.7 acre construction footprint. Following development, the site will maintain the same amount of impervious surface, 8.1 acres. The construction will be approximately 4,700 linear feet of roadway.
 2. The complete Project Review was received on February 24, 2016. To comply with the 60-day review requirement, the Commission must approve or deny this project no later than the April 14th, 2016 meeting. Sixty calendar-days expires on April 24th, 2016.
 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 - 80-85% TSS removal and 50-60% TP removal.

Runoff from the site will be routed to a series of existing and proposed storm sewer pipes using 5 new sump manholes with SAFL baffles. Runoff from Northbrook Circle, Northbrook Ave, and Cavell Ave will end up in a new stormwater wetland before entering into the Cherokee Wetland through which Bass Creek flows. The impervious area from the southern portion of Decatur Ave and Edgemont Blvd are routed into a sump manhole with SAFL baffle before entering into Bass creek. Edgemont Circle and the northern section of Edgemont Blvd are routed through two sump manholes each with SAFL baffles before entering into Bass Creek.

SC2016-03: CSAH 81 Reconstruction

4. Commission rules require that site runoff be limited to predevelopment rates for the 2-, 10-, and 100-year storm events. A portion of the runoff from the site will be routed to a new stormwater wetland. The applicant meets the Commission's rate control requirements.
5. Commission rules require the site to infiltrate 1.0" of runoff from new impervious area within 48 hours. No new impervious area is being created with this project, which meets Commission requirements.
6. The NWI identifies one wetland along the project corridor. There will be permanent impacts to wetlands which has been determined de minimus and will not need replacement compliance with WCA. Shingle Creek is the LGU in Brooklyn Park and a notice of decision has been made.
7. There are no Public Waters on this site.
8. There is floodplain on this site, and there will be changes in the floodplain as more storage will be created in the form of a stormwater wetland. The wetland has been reviewed and a Notice of Decision has been made by the LGU.
9. An erosion control plan was submitted with the project review, which includes perimeter silt fence, inlet protection, slope checks, and native seed specified on the pond slopes. The erosion control plan meets Commission requirements.
10. A Public hearing on the project was conducted on December 16, 2015 meeting, as well as multiple neighborhood emails about the project after each City Council meeting. The project meets Commission public notice requirements.
11. A Project Review Fee of \$1,100 has been received.

Recommendation: Recommend approval

Wenck Associates, Inc.
Engineers for the Commission



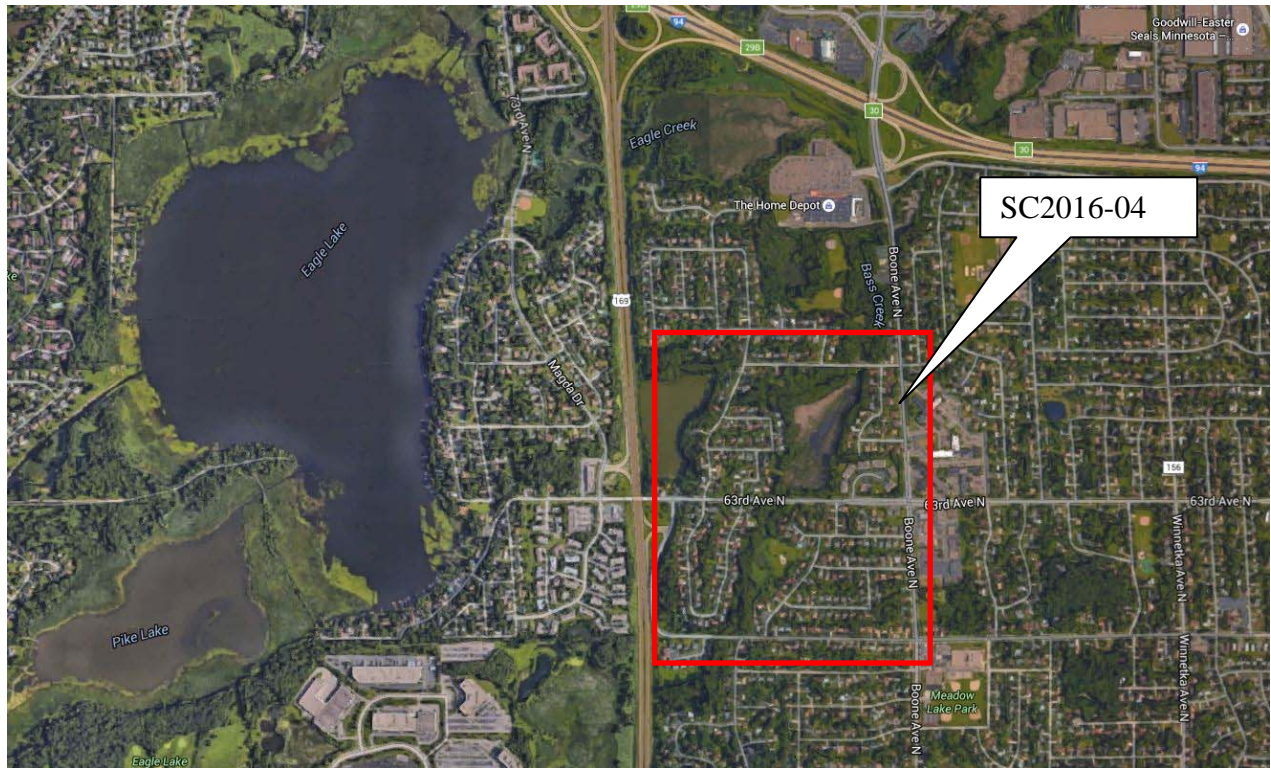
Ed Matthiesen, P.E.

March 3, 2016

Date

SC2016-03: CSAH 81 Reconstruction

Figure 1. Site location.



Technical Memo



Responsive partner.
Exceptional outcomes.

To: Shingle Creek/West Mississippi WMO Commissioners

From: Ed Matthiesen, P.E.
Diane Spector

Date: March 4, 2016

Subject: Potential Rules and Standards Revisions

**Recommended
Commission Action**

Direct the TAC to review potential revisions to the Rules and Standards and return recommendations for amendment.

We continue to monitor ongoing technology and engineering practice changes that may have an impact on the Commissions' development rules and standards. Three items have come up recently that we believe warrant review by the Technical Advisory Committee (TAC) for possible adoption.

Drinking Water Protection

The Commissions' rules and standards prohibit infiltration within the one year time-of-travel zone of any drinking water well. This is very broad and in some cases infiltration of runoff from certain types of impervious may be allowable. We've been working with some other WMOs to refine those definitions and will have that discussion with the TAC to determine if they are workable here.

Application of Rules to Sidewalks and Trails

Linear projects such as sidewalks and trails do not lend themselves well to traditional bioinfiltration BMPs to accomplish the 1.3" of infiltration needed to meet water quality and infiltration requirements. These linear projects are typically sloped to direct runoff to sheetflow to the boulevard or shoulders of the trails. We have developed a preliminary standard that would allow the applicant to meet that requirement by amending the soil receiving the sheetflow to a certain width depending on soil type.

BMP Banking

A discussion at a previous TAC meeting broached the subject of BMP banking. For example, a City has an opportunity to install a BMP with a project that would not require it, or that would go above and beyond what the Commission requires. Can they "bank" that extra treatment capacity to be used on a future project where treatment is required but infeasible? This is similar to wetland banking. We will work with the TAC to determine if this is feasible and under which circumstances it would be allowable and how it would be documented.

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Contract No: A165144

SERVICES AGREEMENT

This Agreement is between the County of Hennepin, State of Minnesota, A-2300 Government Center, Minneapolis, Minnesota 55487 (the “County”), on behalf of the Hennepin County Department of Environment and Energy, 701 Fourth Avenue South, Suite 700, Minneapolis, Minnesota 55415 (the “Department”) and the Shingle Creek Watershed Management Commission located at 3235 Fernbrook Lane, Plymouth, MN 55447, a watershed commission duly organized under the laws of the State of Minnesota (the “Commission”).

The parties agree as follows:

1. TERM OF THE AGREEMENT

The County agrees to furnish River Watch and Wetland Health Evaluation program services to the Commission commencing May 1, 2016 and terminating December 31, 2016, unless terminated earlier in accordance with the Default and Cancellation provisions of this Agreement.

2. SERVICES TO BE PROVIDED

The County agrees to provide River Watch and Wetland Health Evaluation Program services to the Commission as more fully described in Exhibit A, attached hereto and incorporated herein by reference.

3. PAYMENT FOR SERVICES

The Department will bill the Commission for services rendered. Payment shall be made within thirty-five (35) days from receipt of the invoice.

The total cost of this Agreement shall not exceed Five Thousand Dollars (\$5,000).

4. INDEPENDENT CONTRACTOR

The County shall select the means, method, and manner of performing the services. Nothing is intended or should be construed as creating or establishing the relationship of a partnership or a joint venture between the parties or as constituting either party as the agent, representative, or employee of the other party for any purpose. The County is and shall remain an independent contractor for all services performed under this Agreement.

5. LIABILITY

Each party shall be responsible for its own acts and deeds and the results thereof. The County’s liability shall be governed by the provisions of Minnesota Statutes, Chapter 466 and other applicable law.

6. INSURANCE

- A. Both parties agree at all times during the term of this Agreement, and beyond such term when so required, to have and keep in force the following insurance coverages:

	<u>Limits</u>
1. Commercial General Liability on an occurrence basis with contractual liability coverage:	
General Aggregate	\$2,000,000
Products—Completed Operations Aggregate	2,000,000
Personal and Advertising Injury	1,500,000
Each Occurrence—Combined Bodily Injury and Property Damage	1,500,000
2. Workers' Compensation and Employer's Liability:	
Workers' Compensation	Statutory
Employer's Liability. Bodily injury by:	
Accident—Each Accident	500,000
Disease—Policy Limit	500,000
Disease—Each Employee	500,000
3. Professional Liability—Per Claim	1,500,000
Aggregate	2,000,000
The professional liability insurance must be maintained continuously for a period of two years after the termination of this Agreement.	

- B. A self-insurance program is an acceptable method to provide the required insurance limits.
- C. Duty to Notify. Each party shall promptly notify the other party of any claim, action, cause of action or litigation brought against it, its employees, officers, agents or subcontractors, which arises out of the services contained in this Agreement. Each party shall also notify the other party whenever it has a reasonable basis for believing that it and/or its employees, officers, agents or subcontractors, might become the subject of a claim, action, cause of action, or litigation arising out of and/or related to the services contained in this Agreement.

7. DATA PRACTICES

Each party, its officers, agents, owners, partners, employees, volunteers and subcontractors shall abide by the provisions of the Minnesota Government Data Practices

Act, Minnesota Statutes, Chapter 13 (MGDPA), the Health Insurance Portability and Accountability Act of 1996 (HIPAA) and the Health Information Technology for Economic and Clinical Health Act (HITECH), adopted as part of the American Recovery and Reinvestment Act of 2009, and implementing regulations, if applicable, and all other applicable state and federal laws, rules, regulations and orders relating to data privacy or confidentiality. The terms of this section shall survive the cancellation or termination of this Agreement.

8. SUCCESSORS AND ASSIGNMENTS

- A. Each party binds itself, its partners, successors, assigns and legal representatives to the other party for all covenants, agreements and obligations contained in the contract documents.
- B. Neither party shall assign, transfer or pledge this Agreement and/or the services to be performed, whether in whole or in part, without the prior written consent of the other party.

9. MERGER AND MODIFICATION

- A. It is understood and agreed that the entire Agreement between the parties is contained herein and that this Agreement supersedes all oral agreements and negotiations between the parties relating to the subject matter. All items that are referenced or that are attached are incorporated and made a part of this Agreement. If there is any conflict between the terms of this Agreement and referenced or attached items, the terms of this Agreement shall prevail.
- B. Any alterations, variations, modifications, or waivers of provisions of this Agreement shall only be valid when they have been reduced to writing as an amendment to this Agreement signed by the parties.

10. DEFAULT AND CANCELLATION

- A. If each party fails to perform any of the provisions of this Agreement or so fails to administer the work as to endanger the performance of the Agreement, it shall be in default. Unless the defaulting party's default is excused by the other party, the non-defaulting party may upon written notice immediately cancel this Agreement in its entirety.
- B. A party's failure to insist upon strict performance of any provision or to exercise any right under this Agreement shall not be deemed a relinquishment or waiver of the same, unless consented to in writing. Such consent shall not constitute a general waiver or relinquishment throughout the entire term of the Agreement.
- C. This Agreement may be canceled with or without cause by either party upon thirty (30) day written notice.

11. SURVIVAL OF PROVISIONS

Provisions that by their nature are intended to survive the term, cancellation or termination of this Agreement include but are not limited to: INDEPENDENT CONTRACTOR; LIABILITY; INSURANCE; DATA PRACTICES; DEFAULT AND CANCELLATION; PROMOTIONAL LITERATURE; and MINNESOTA LAW GOVERNS.

12. CONTRACT ADMINISTRATION

In order to coordinate the services being provided to the Commission with the activities of the Department, Mary L Karius, or successor, shall manage this Agreement on behalf of the County and serve as liaison between the County and the Commission.

13. COMPLIANCE AND NON-DEBARMENT CERTIFICATION

Both parties shall comply with all applicable federal, state and local statutes, regulations, rules and ordinances currently in force or later enacted.

14. NOTICES

Any notice or demand which must be given or made by a party under this Agreement or any statute or ordinance shall be in writing, and shall be sent registered or certified mail. Notices to the County shall be sent to the County Administrator with a copy to the originating Department at the address given in the opening paragraph of the Agreement. Notice to the Commission shall be sent to the address stated in the opening paragraph of the Agreement.

15. MEDIA OUTREACH

CONTRACTOR shall not use the term “Hennepin County”, or any derivative thereof in CONTRACTOR’s advertising, external facing communication and/or marketing, including but not limited to advertisements of any type or form, promotional ads/literature, client lists and/or any other form of outreach, without the written approval of the Hennepin County Public Affairs/Communications Department, or their designees.

16. MINNESOTA LAWS GOVERN

The Laws of the State of Minnesota shall govern all questions and interpretations concerning the validity and construction of this Agreement and the legal relations between the parties and their performance. The appropriate venue and jurisdiction for any litigation will be those courts located within the County of Hennepin, State of Minnesota. Litigation, however, in the federal courts involving the parties will be in the appropriate federal court within the State of Minnesota. If any provision of this

Agreement is held invalid, illegal or unenforceable, the remaining provisions will not be affected.

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COUNTY ADMINISTRATOR AUTHORIZATION

Reviewed by the County Attorney's
Office

COUNTY OF HENNEPIN
STATE OF MINNESOTA

Assistant County Attorney

By: _____
David Hough, County Administrator

By: _____
Assistant County Administrator - Public Works

Date: _____

Recommended for Approval

By: _____
Director, Department of Environment and Energy

Date: _____

Shingle Creek Watershed Management Organization

The Organization certifies that the person who executed this Agreement is authorized to do so on behalf of the Organization as required by applicable articles, bylaws, resolutions or ordinances.*

Printed Name: _____

Signed: _____

Title: _____

Date: _____

* Organization shall submit applicable documentation (articles, bylaws, resolutions or ordinances) that confirms the signatory's delegation of authority. This documentation shall be submitted at the time Organization returns the Agreement to the County. Documentation is not required for a sole proprietorship.

EXHIBIT A

SCHEDULE OF SERVICES

The Wetland Health Evaluation Project (WHEP) is a partnership between the Minnesota Pollution Control Agency, Hennepin County, Dakota County and cooperating cities and watershed organizations. In the program, citizen volunteers use biological monitoring criteria established by the MPCA to monitor local wetlands. Hennepin County Department of Environment and Energy is the coordinating agency in Hennepin County. The project began in Dakota County in 1998 and was piloted in Hennepin County in 2001. The details of the program responsibilities are as follows:

- Take proper precautions to ensure the safety of those involved in activities relating to WHEP.
- Recruit and manage volunteers
- Convene WHEP meetings as necessary.
- Coordinate and facilitate training sessions.
- Provide site selection forms and site selection assistance as needed.
- Provide all Quality Assurance/Quality Control checks.
- Manage program finances.
- Manage program contracts.
- Maintain communication with all parties.
- Implement any corrective actions necessary based upon recommendations from the monitoring coordinators, local sponsors, or the Minnesota Pollution Control Agency.
- Keep accessible all data sheets, site selection forms, financial records, and reports.
- Provide copies of checked data sheets as requested.
- Coordinate outreach educational opportunities.
- Coordinate volunteer appreciation efforts.
- Develop and distribute Year End Results to all interested parties upon request and via Hennepin County website.
- Two WHEP sites

River Watch is a volunteer monitoring program coordinated by Hennepin County Environment and Energy and highlights a partnership between cooperating cities and watershed organizations. In the program, teachers and youth volunteers use biological monitoring criteria established by the MPCA to monitor local streams. Teachers use this as a unique hands-on research experience in the classroom setting. The details of the program responsibilities are as follows:

- Take proper precautions to ensure the safety of those involved in activities relating to River Watch.
- Recruit and manage teachers and students to monitor sites within the Shingle Creek Watershed.
- Coordinate and facilitate training sessions in field collection techniques and macroinvertebrate identifications including all in-person, hands-on training.
- Provide funds to cover internal teacher costs including busing and substitute teacher pay
- Provide all Quality Assurance/Quality Control checks.

- Manage program finances.
- Manage program contracts.
- Maintain communication with all parties.
- Keep accessible all data sheets, site selection forms, financial records, and reports.
- Provide copies of checked data sheets as requested.
- Coordinate outreach educational opportunities.
- Coordinate volunteer appreciation efforts.
- Develop and distribute Year End Results to all interested parties upon request and via Hennepin County website.
- Three River Watch sites.

Contract No:A165145

SERVICES AGREEMENT

This Agreement is between the County of Hennepin, State of Minnesota, A-2300 Government Center, Minneapolis, Minnesota 55487 (the “County”), on behalf of the Hennepin County Department of Environment and Energy, 701 Fourth Avenue South, Suite 700, Minneapolis, Minnesota 55415 (the “Department”) and the West Mississippi Watershed Management Organization, located at 3235 Fernbrook Lane, Plymouth, MN 55447 a watershed organization duly organized under the laws of the State of Minnesota (the “Organization”).

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3. PAYMENT FOR SERVICES

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The total cost of this Agreement shall not exceed Three Thousand Dollars (\$3,000).

4. INDEPENDENT CONTRACTOR

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Personal and Advertising Injury	1,500,000
Each Occurrence—Combined Bodily Injury and Property Damage	1,500,000
2. Workers' Compensation and Employer's Liability:	
Workers' Compensation	Statutory
Employer's Liability. Bodily injury by:	
Accident—Each Accident	500,000
Disease—Policy Limit	500,000
Disease—Each Employee	500,000
3. Professional Liability—Per Claim	1,500,000
Aggregate	2,000,000
The professional liability insurance must be maintained continuously for a period of two years after the termination of this Agreement.	

- B. A self-insurance program is an acceptable method to provide the required insurance limits.
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- A. If each party fails to perform any of the provisions of this Agreement or so fails to administer the work as to endanger the performance of the Agreement, it shall be in default. Unless the defaulting party's default is excused by the other party, the non-defaulting party may upon written notice immediately cancel this Agreement in its entirety.
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the same, unless consented to in writing. Such consent shall not constitute a general waiver or relinquishment throughout the entire term of the Agreement.

- C. This Agreement may be canceled with or without cause by either party upon thirty (30) day written notice.

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Any notice or demand which must be given or made by a party under this Agreement or any statute or ordinance shall be in writing, and shall be sent registered or certified mail. Notices to the County shall be sent to the County Administrator with a copy to the originating Department at the address given in the opening paragraph of the Agreement. Notice to the Organization shall be sent to the address stated in the opening paragraph of the Agreement.

15. MEDIA OUTREACH

CONTRACTOR shall not use the term “Hennepin County”, or any derivative thereof in CONTRACTOR’s advertising, external facing communication and/or marketing, including but not limited to advertisements of any type or form, promotional ads/literature, client lists and/or any other form of outreach, without the written approval of the Hennepin County Public Affairs/Communications Department, or their designees.

16. MINNESOTA LAWS GOVERN

The Laws of the State of Minnesota shall govern all questions and interpretations concerning the validity and construction of this Agreement and the legal relations between the parties and their performance. The appropriate venue and jurisdiction for any litigation will be those courts located within the County of Hennepin, State of Minnesota. Litigation, however, in the federal courts involving the parties will be in the appropriate federal court within the State of Minnesota. If any provision of this Agreement is held invalid, illegal or unenforceable, the remaining provisions will not be affected.

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COUNTY ADMINISTRATOR AUTHORIZATION

Reviewed by the County Attorney's Office

COUNTY OF HENNEPIN
STATE OF MINNESOTA

Assistant County Attorney

By: _____
David Hough, County Administrator

By: _____
Assistant County Administrator - Public Works

Date: _____

Recommended for Approval

By: _____
Director, Department of Environment and Energy

Date: _____

West Mississippi Watershed Management Organization

The Organization certifies that the person who executed this Agreement is authorized to do so on behalf of the Organization as required by applicable articles, bylaws, resolutions or ordinances.*

Printed Name: _____

Signed: _____

Title: _____

Date: _____

* Organization shall submit applicable documentation (articles, bylaws, resolutions or ordinances) that confirms the signatory's delegation of authority. This documentation shall be submitted at the time Organization returns the Agreement to the County. Documentation is not required for a sole proprietorship.

EXHIBIT A

SCHEDULE OF SERVICES

The Wetland Health Evaluation Project (WHEP) is a partnership between the Minnesota Pollution Control Agency, Hennepin County, Dakota County and cooperating cities and watershed organizations. In the program, citizen volunteers use biological monitoring criteria established by the MPCA to monitor local wetlands. Hennepin County Department of Environment and Energy is the coordinating agency in Hennepin County. The project began in Dakota County in 1998 and was piloted in Hennepin County in 2001. The details of the program responsibilities are as follows:

- Take proper precautions to ensure the safety of those involved in activities relating to WHEP.
- Recruit and manage volunteers
- Convene WHEP meetings as necessary.
- Coordinate and facilitate training sessions.
- Provide site selection forms and site selection assistance as needed.
- Provide all Quality Assurance/Quality Control checks.
- Manage program finances.
- Manage program contracts.
- Maintain communication with all parties.
- Implement any corrective actions necessary based upon recommendations from the monitoring coordinators, local sponsors, or the Minnesota Pollution Control Agency.
- Keep accessible all data sheets, site selection forms, financial records, and reports.
- Provide copies of checked data sheets as requested.
- Coordinate outreach educational opportunities.
- Coordinate volunteer appreciation efforts.
- Develop and distribute Year End Results to all interested parties upon request and via Hennepin County website.
- 2 WHEP sites.

River Watch is a volunteer monitoring program coordinated by Hennepin County Environment and Energy and highlights a partnership between cooperating cities and watershed organizations. In the program, teachers and youth volunteers use biological monitoring criteria established by the MPCA to monitor local streams. Teachers use this as a unique hands-on research experience in the classroom setting. The details of the program responsibilities are as follows:

- Take proper precautions to ensure the safety of those involved in activities relating to River Watch.
- Recruit and manage teachers and students to monitor sites within the West Mississippi Watershed.
- Coordinate and facilitate training sessions in field collection techniques and macroinvertebrate identifications including all in-person, hands-on training.
- Provide funds to cover internal teacher costs including busing and substitute teacher pay
- Provide all Quality Assurance/Quality Control checks.

- Manage program finances.
- Manage program contracts.
- Maintain communication with all parties.
- Keep accessible all data sheets, site selection forms, financial records, and reports.
- Provide copies of checked data sheets as requested.
- Coordinate outreach educational opportunities.
- Coordinate volunteer appreciation efforts.
- Develop and distribute Year End Results to all interested parties upon request and via Hennepin County website.
- 3 River Watch sites

Technical Memo



Responsive partner.
Exceptional outcomes.

To: Shingle Creek/West Mississippi WMO Commissioners

From: Ed Matthiesen, P.E.
Diane Spector

Date: March 4, 2016

Subject: Governor's Water Summit Update

On February 27, 2016 Governor Dayton hosted his Governor's Water Summit St. Paul. Over 800 people attended, including numerous state and local elected officials, farmers, business people, professionals, agency and city staffs, and other interested citizens. The summit started with a short address by the Governor expressing how important this issue was to him and all Minnesotans. This was followed by two breakout sessions. At each breakout session there were nine different listening sessions. Each of the nine sessions was broken into smaller groups of 20-30 people, each with a facilitator leading discussion. After lunch, a panel of four private industry leaders, moderated by the Lt. Governor, discussed leveraging public-private partnerships to address water issues now before they become acute.

Much of the background thinking that went into the Water Summit can be found in the report Beyond the Status Quo: 2015 EQB Water Policy Report ([https://www.eqb.state.mn.us/beyond-status-quo-2015-
eqb-water-policy-report](https://www.eqb.state.mn.us/beyond-status-quo-2015-eqb-water-policy-report)).

The following are the breakout sessions and topics discussed by the small group facilitators. Several Wenck water resources staff attended the summit, and we are still compiling our notes and takeaways from the summit. More information will be available at the Commissions' March 10, 2016 meeting.

Breakout Topics

1. Investing in clean water

With the Legacy Amendment funds set to expire in 2034, it's time for a close look at how to best maximize those funds to protect and restore Minnesota's water. We also need a smart, balanced approach for utilizing public-private partnerships and other sources of funding to enhance the state's investment.

2. Challenges facing Minnesota's iconic waters

Whether it's Lake Superior, the Mississippi River, or the Boundary Waters, Minnesotans take pride in our iconic waters. How can we protect these special places for future generations?

3. Ensure Minnesota is resilient to extreme weather

Heavy rainfall and floods are increasing in Minnesota as our climate changes, threatening our water quality, health, infrastructure, agriculture and transportation. Our water and landscape must be able to withstand these mounting pressures.

4. Living cover

Living cover is important to our landscape by holding water, filtering contaminants, protecting drinking water, and allowing water to recharge aquifers. We'll explore ways to improve and expand living cover through the use of cover crops, perennial plant cover and other land practices.

5. Sustaining our water supplies

Minnesotans can no longer take the abundance of fresh water for granted. We must take immediate action to protect our water quantity and availability through efficiency and conservation practices.

6. Water and wastewater Infrastructure

Minnesota's drinking water and wastewater infrastructure needs an estimated \$11 billion in upgrades. How should the costs and responsibilities for current infrastructure needs and new regulations be balanced and affordable?

7. Water in the urban and built environment

When the rains come, it rinses our urban landscapes of contaminants, pollution and sediment. How can we better manage stormwater runoff in our urban areas where rooftops and pavement speeds polluted water to lakes and rivers?

8. Aquatic invasive species

The spread of AIS through our lakes and rivers has a devastating impact on natural aquatic life. Stopping it will require behavioral changes and adequate penalties for offenders. Infested waters need ongoing research and the best available technology to clean them up.

9. Water in the rural environment

Water in Minnesota's rural areas faces unique challenges as we balance economic development with the increased demand on our water, and as we manage potential pollutants. What strategies help us achieve these goals in a way that allows businesses to grow and thrive, while ensuring the protection of our water?

Technical Memo



Responsive partner.
Exceptional outcomes.

To: Shingle Creek/West Mississippi WMO Commissioners

From: Ed Matthiesen, P.E.
Diane Spector

Date: March 4, 2016

Subject: Education and Outreach and WMWA Update

Education and Outreach

The annual NPDES report has been conveyed to the member cities for their use. We will also remind the cities that the WMWA educators are available to staff special events with a watershed table. A reminder that the week of April 17-23, 2016 is Earth Week and is the 14th Annual Great Shingle Creek Watershed Cleanup week. Since Earth Day is Friday, April 22, we expect that Saturday April 23 will be busy with activities.

We have created a new Facebook page called Shingle Creek Watershed Management Organization. As of 3/4/16, it has 23 Likes, mostly individuals. We have also linked it to member cities' Facebook pages. Our intent is to post something about once a week, depending on what is happening. Some of those posts will simply be notices of meetings, etc., but we also hope to include photos from ongoing projects, both Commission and City. Wenck staff will also be more active taking photos as they are monitoring, etc. Right now you can submit photos or posts to Diane for posting as the Commission, or you can post directly on the Commission's Facebook. Judie and Amy at JASS will be admins on the site as well.

We have the first full month of Google Analytics for the updated website. We are working through all the analytics to develop a monthly report that would be of most use to you. Attached is a basic report showing the number of page views in February – 897 total page views in February, with 334 total and 255 unique page views of the Home Page and the rest spread among the other pages. The most popular pages are Minutes and Meeting packets page and the Rules and Standards page.

WMWA Update


The Planting for Clean Water and Pollinators “Big Project” kicked off Saturday, February 20, 2016 at the Wild Ones Design with Nature conference at St. Thomas University. It was very well received. WMWA is working with Metro Blooms to develop a roll out, notifying first our member cities and the local media and then a larger campaign. You can visit the campaign site at <http://www.blue-thumb.org/pledge/>.

The West Metro Water Alliance (WMWA) will meet on March 8, 2016, and a verbal update will be presented, including an update on the roll out campaign mentioned above.

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

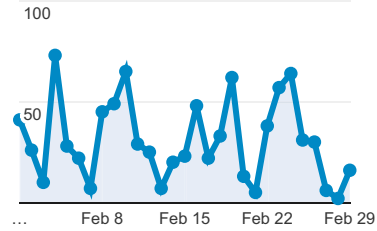
SCWM

Feb 1, 2016 - Feb 29, 2016

 All Users
100.00% Sessions

Pageviews

● Pageviews



Pageviews

897

% of Total: 100.00% (897)



Pageviews and Unique Pageviews by Page

Page	Pageviews	Unique Pageviews
/	334	255
/minutes--meeting-packets.html	90	71
/rules-and-standards.html	64	58
/commissions.html	46	12
/shingle-creek-commissioners.html	27	23
/tac-meetings.html	25	22
/contact-us.html	24	22
/maps.html	23	21
/technical-advisory-committee.html	22	17
/project-reviews.html	20	15

DRAFT



WEST METRO WATER ALLIANCE

2015 ANNUAL REPORT



BACKGROUND

In 2006 the Shingle Creek and West Mississippi Watershed Management Commission's Education and Public Outreach Committee (EPOC) invited the Education Committee of the Bassett Creek Watershed Management Commission to partner in developing joint education and outreach activities. Since that time this voluntary partnership has grown to include the Elm Creek Watershed Management Commission, the Three Rivers Park District, Hennepin County Department of Environment and Energy, and the Freshwater Society. The WMOs are designated as "members," the latter three organizations as "partners."

This alliance, the West Metro Water Alliance (WMWA), grew from a recognition that the individual organizations have many common education and public outreach goals and messages that could be more efficiently and effectively addressed and delivered collaboratively and on a wider scale.

MEETINGS

WMWA meets monthly, as needed, on the second Tuesday, at Plymouth City Hall. Member representatives include Laura Jester, Administrator, Bassett Creek WMC; Doug Baines, Dayton, Elm Creek WMC; and Shelley Marsh, Brooklyn Center, and Ben Scharenbroich, Plymouth, Shingle Creek and West Mississippi WMCs. Partner attendees have included Denis Hahn, Three Rivers Park District; Mary Karius, Hennepin County; and Peggy Knapp, Freshwater Society. Other attendees include Jenny Schaut and Mary Anderson, Watershed PREP Educators; Dawn Pape and Becky Rice, Metro Blooms; Michaela Neu and Tammy Schmitz, Mississippi WMO; and Dave Dahle, Eden Prairie. Diane Spector, Wenck Associates, serves as technical support for WMWA, and Amy Juntunen and Judie Anderson, JASS, serve as administrative support. In 2015 eleven meetings were held.

THE WMWA PROGRAM

Goals of the WMWA program are to:

- Inform public about the watershed organizations and their programs.
- Provide useful information to public on priority topics.
- Engage public and encourage positive, water-friendly behaviors.

Two informational pieces have been developed by WMWA to support these goals. The *10 Things You Can Do Brochure* targets the general public. The brochure is distributed at all venues where the Commissions or member cities have a presence and also in the Watershed PREP classrooms. It is also available on the websites of the WMO member cities.

The *Maintain Your Property the Watershed Friendly Way* handbook targets small businesses, multi-family housing properties, and common interest communities such as homeowners' associations. It contains tips for specifying and hiring turf and snow maintenance contractors, and includes checklists for BMP inspections. Nearly 5,000 copies were distributed to member cities in 2015.

WATERSHED PREP

Watershed PREP is a program of WMWA, and stands for Protection, Restoration, Education, and Prevention. 2015 was the third year of the program. Two contract educators with science education backgrounds are shared between the member watersheds. The focus of the program is two-fold - to present water resource-based classes to fourth grade students and to provide education and outreach to citizens, lake associations, other civic organizations, youth groups, etc. Goals of the program are 1) to have audiences gain a general understanding of watersheds, water resources and the organizations that manage them, and 2) to have audiences understand the connection between actions and water quality and water quantity. The ultimate goal is to make this program available to all fourth graders in the four WMWA watersheds and to other schools as contracted.

Fourth Grade Program. Three individual lessons meeting State education standards have been developed. **Lesson 1, *What is a Watershed and Why do we care?***, provides an overview of the watershed concept and is specific to each school's watershed. It describes threats to the watershed. **Lesson 2, *Water Cycle - More than 2-dimensional!***, describes the movement and status of water as it travels through the water cycle. **Lesson 3, *Stormwater Walk***, investigates movement of surface water on schools grounds.



In 2015, 149 classes totaling 4,042 students attended lessons 1 and 2 (compared to 78 and 1,373, respectively, in 2014, and 37 and 931, respectively, in 2013.) *Appendix A* details the students reached in lessons 1 and 2.

Additionally, the Mississippi Watershed Management Organization (MWMO) awarded a grant for \$2,000 for the Educators to bring Watershed PREP to five schools in that watershed.

Community Education and Outreach. The PREP educators also provided outreach at four community and school events. Outreach activities are also described in *Appendix A*.

UPDATED WORK PLAN

In 2015 the WMWA Work Plan was updated to reflect current practices. The last plan, created in 2010, had become outdated. Several of the activities included in the 2010 Plan are lower priorities now, and some activities such as Watershed PREP were not included at that time. The updated Work Plan identified the following activities:

1. Facilitate information availability and sharing.
2. Reschedule professional opinion survey to measure knowledge and attitudes about water resources to 2019.
3. Provide Coordinated Communication, Media Relations, and Information Sharing that more closely parallels what the NPDES Permit education and public outreach minimum measure require. Components include identifying priority issues every year, developing a communications plan that identifies educational goals by stakeholder, establishing measurable goals, and identifying responsible parties.

4. Develop county-wide or regional activities. At this time WMWA does not have the capacity to undertake these activities.
5. Pursue and obtain funding for education and public outreach activities.
6. Support and expand in scope and reach the Watershed PREP program.

WMWA's 2015 and 2016 budgets reflect these activities and were approved by the members on May 13, 2014 and March 10, 2015, respectively. The budgets are included in this report as *Appendix B*.

SPECIAL PROJECT

At WMWA's request, Metro Blooms/Blue Thumb submitted a proposal for a project that would encourage residents to replace impervious surface and turf grass with native plantings to benefit clean water by reducing stormwater runoff. The project includes the additional benefit of creating habitat for pollinators. An agreement between Metro Blooms and the Shingle Creek Commission, as fiscal agent, to move the project forward was approved.

Phase one of the project began with creation of a name, tag line and logo. The project was promoted in the Blue Thumb space at the State Fair where the public voted to name the campaign, *Pledge to Plant for Clean Water and Pollinators*.



Phase two was approved contingent on identifying additional funding sources. The second phase will include development of a web application and associated elements.

WMWA WEBSITE

It was an original intention for WMWA to have a website that served as a repository for documents and information for access by member cities and citizens. Hennepin County provided a page on its website for WMWA to realize this intention. In late 2015, it was determined that the page on the County website was difficult to navigate and did not provide the support desired, such as the ability to update and include Watershed PREP information for schools. The domain www.westmetrowateralliance.org was purchased and a subcommittee was formed to create a new website, develop content, and populate with links and information. The site will be open to the public in early 2016.

2015 MARKETING ACTIVITY

Water Links. The members and their partners contribute to the WMWA eNewsletter *Water Links*, which is published by Hennepin County Department of Environment and Energy. Three issues were published in 2015. Articles included seasonal topics such as Environmentally Friendly Lawn Care, Managing Fall Yard Waste, and Snow and Ice control, as well as project updates including grants received to study carp and bacteria, restoration projects, waters removed from the impairments list, and information on monitoring programs.

Seed Packets. One of the priority messages in 2015 was the role of native vegetation in improving stormwater infiltration and reducing other negative environmental impacts. To help promote this message, WMWA and the

member Commissions handed out 500 packets of native seeds at community events and in Watershed PREP classrooms. A short educational message was printed on the seed packets.



Plymouth Home Expo. Bassett Creek, Shingle Creek, West Mississippi and Elm Creek booths were combined into a large area and included a WMWA focus area at the 2015 Expo, April 10 and 11. There were over 120 direct contacts at the booths. The WMWA educators demonstrated the Enviroscope. A “Planting in native clay soil” handout was available at the SC/WM/EC booths and doggy-doo bags were provided at the BC booth. Over 900 folks visited the event.

Beer Coaster Project. In 2014 WMWA partnered with the Freshwater Society and Excelsior Brewing on a beer coaster project. Excelsior agreed to print batches of their coasters with water quality messages and the WMWA name and contact info at no cost to WMWA. The flip side of the coaster has a QR code that takes the reader to a web page of environmental messages. The first set of coasters was printed in 2015.

To learn more about WMWA, contact:

*Diane Spector, Wenck Associates, 763.479.4280, dspector@wenck.com
or Amy Juntunen, JASS, 763.553.1144, amy@jass.biz*

APPENDIX

2015 Watershed PREP

Lesson 1: What is a Watershed and Why do we Care?

	Date	School	School District	Watershed	# of Classes	# of Students	Educator	Funded By
1	7-Jan	Shirley Hills Primary	Westonka	Minnehaha	1	23	Mary	HC
2	9-Jan	Good Shepherd	Parochial	Bassett	2	48	Jen	HC
3	13-Jan	Lakeview Elementary	Robbinsdale	Shingle	3	78	Jen	HC
4	14-Jan	Jackson Middle School (8th gr.) Expert day	Anoka-Hennepin	W. Miss	2	30	Jen	WMWA
5	16-Jan	Elm Creek	Osseo	Elm	3	78	Jen	WMWA
6	23-Jan	St. Alphonsus	Parochial	Shingle	1	15	Jen	HC
7	24-Feb	Zachary Lane Elementary	Robbinsdale	Bassett	4	105	Mary	HC
8	18-Mar	Oakwood	Wayzata	Minnehaha	4	102	Mary	Plymouth
9	27-Mar	Sacred Heart	Parochial	Shingle	1	26	Jen	WMWA
10	25-26 Mar	Plymouth Creek	Wayzata	Bassett	5	128	Mary	WMWA
11	10-Apr	Gleason Lake	Wayzata	Minnehaha	1	25	Mary	Plymouth
12	29-Apr	St. Charles Borromeo	Mpls	MWMO	2	34	Jen	MWMO
13	27-28 Apr	Kimberly Lane	Wayzata	Bassett	5	127	Mary	WMWA
14	4-May	Rush Creek	Osseo	Elm	5	148	Jen	WMWA
15	6-May	Earle Brown Elementary	Brooklyn Center	W. Miss	6	216	Jen	WMWA
16	14-May	Mary Queen Of Peace	Parochial	Elm	1	18	Jen	WMWA
17	15-May	Bethune	Minneapolis	MWMO	2	34	Jen	MWMO
18	18-May	St. Vincent de Paul School	Parochial	W. Miss	2	52	Jen	WMWA
19	6-7 May	Birchview	Wayzata	Bassett	5	124	Mary	WMWA
20	Jun1, Jun 3	Hassan	Elk River	Elm	5	144	Jen	WMWA
21	Spring	Sunset Hill	Wayzata	Bassett	4	99	Mary	WMWA
22	28-Sep	Yingua Academy	Mpls Charter	MWMO	2	56	Jen	MWMO
23	29-30 Sept	Woodland Elementary	Osseo	W. Miss	5	140	Jen	WMWA
24	2-Oct	School of Engineering and Arts (SEA)	Robbinsdale	Bassett	3	84	Jen	WMWA
25	9-Oct	Weaver Lake Science Math & Tech	Osseo	Elm	4	120	Jen	WMWA
26	12-Oct	Rice Lake	Osseo	Elm	4	112	Jen	WMWA
27	19-Oct	Rogers Elementary School	Elk River	Elm	5	135	Jen	WMWA
28	20-22 Oct	Oxbow Creek Elementary	Anoka-Hennepin	W. Miss	7	224	Jen	WMWA
29	20-Oct	Monroe Elementary	Anoka-Hennepin	W. Miss	4	105	Mary	WMWA
30	22-23 Oct	Champlin Brooklyn Park Academy	Anoka-Hennepin	W. Miss	6	155	Mary	WMWA
31	27-28 Oct	Robbinsdale Spanish Imm.	Robbinsdale	Bassett	5	117	Jen	WMWA
32	3-Nov	Elm Creek Elementary	Osseo	Elm	3	77	Jen	WMWA
33	24-Nov	Meadow Lake	Robbinsdale	Shingle	4	88	Jen	WMWA
34	20-Nov	New Millennium	Mpls	MWMO	3	70	Jen	MWMO
35	1-Dec	New City School	Mpls	MWMO	2	46	Jen	MWMO
36	8-Dec	Learning for Leadership	Mpls Charter	MWMO	1		Jen	MWMO
37	Dec	Hilltop	Westonka	Minnehaha			Jen	WMWA

Total: 122 3183

**New Schools in 2015

Lesson 2: The Incredible Journey

	Date	School	School District	Watershed	# of Classes	# of Students
	11-May	Rush Creek	Osseo	Elm	5	148
	21-Apr	Earle Brown	Brooklyn Center	W. Miss	6	216
	29-May	Forest Elementary	Robbinsdale	Shingle	3	72
	5-6 Oct	Woodland Elementary	Osseo	W. Miss	5	140
	7-Oct	Jackson MS-Water Day (6th gr)	Brooklyn Park	W. Miss	4	148
	16-Nov	Rogers Elementary	Elk River	Elm	4	135

Total 27 859

Street Clean-Up

	Date	School	School District	Watershed	# of Classes	# of Students
	28-Oct	St. Vincent de Paul	Parochial	W. Miss	1	15
		*cancelled because of weather. Did Lesson #2 and watched street clean-up video.				

Other

	Date	Event	Location	Watershed	# of Attendees
	24-Feb	Basswood Science Night	Maple Grove	Elm Creek	104
	10-11 April	Plymouth Home & Garden	Plymouth	BC, SC, EC	111+
	26-May	Fernbrook Nature Night	Maple Grove	Elm Creek	180
	29-Jul	Plymouth Kids Fest	Plymouth	BC, SC, EC	89

WMWA 2015 Operating Budget (mirrors 2014 budget)

Revenue	Actual 2015 (unaudited)								
	BC	EC	SC	WM	Partners	Total	RECD	Pending	Total
Member Reimbursement Admin/Tech Servs Routine tasks, coordinate newsletter, etc. Annual Report, Newsletter, Social Media	3,750	3,750	3,750	3,750	3,750	15,000	15,000	15,691	691
Member Reimbursement - Special Projects	1,500	1,500	1,500	1,500	1,500	6,000	6,000	6,000	0
Watershed PREP Fourth Grade Initiative Public Outreach	4,500	4,500	4,500	4,500	4,500	18,000	18,000	11,840	6,160
Green Yard Workshops - Metro Blooms (not included in services agreement)	3,000	3,000	3,000	3,000	2,500	14,500	7,800	7,800	0
Total Revenue	9,750	9,750	9,750	9,750	2,500	39,000	46,800	41,331	5,469

APPROVED 2016 BUDGET

Revenue	BC	EC	SC	WM	Partners	Total
Member Reimbursement Admin/Tech Servs Routine tasks, coordinate newsletter, etc. Annual Report, Newsletter, Social Media	3,750	3,750	3,750	3,750	3,750	15,000
Member Reimbursement - Special Projects	1,500	1,500	1,500	1,500	1,500	6,000
Watershed PREP Fourth Grade Initiative Public Outreach	4,500	4,500	4,500	4,500	4,500	18,000
Green Yard Workshops - Metro Blooms (not included in services agreement)	3,000	3,000	3,000	3,000	2,500	14,500
Total Revenue	12,750	12,750	12,750	12,750	2,500	53,500

The cost to develop written materials such as the *Ten Things* brochure is shared by the members. Each watershed organization and/or member city is invoiced for the number of items they purchase for their use/distribution.

