

MIDDLE ST. CROIX WATERSHED MANAGEMENT ORGANIZATION

455 HAYWARD AVENUE, OAKDALE, MINNESOTA 55082
Phone 651.330.8220 x22 fax 651.330.7747 www.mscwmo.org



Regular Meeting of the Middle St. Croix Watershed Management Organization Stillwater Country Club, Stillwater, MN Thursday, November 14th, 2019 6:00PM

1. Call to Order – 6:00PM
 - a. Approval of Agenda
2. Approval of Minutes
 - a. Draft minutes – September 10th, 2019 **pg. 1-5**
4. Treasurer’s Report
 - a. Report of savings account, assets for November 14th, 2019
 - b. Approve payment of bills for November 14th, 2019
5. Public Comment
6. Old Business
7. New Business
 - a. 3M PFAS July Reimbursement Request **pg. 6-7**
 - b. 2020 MSCWMO-WCD Technical Services Agreement **pg. 8-14**
8. Grant and Cost Share Applications
 - a. Lily Lake Raingarden Retrofits- Final Payment **pg. 15-16**
 - b. Fix Cost Share Reimbursement Request **pg. 17-20**
 - c. Lake St. Croix Direct Discharge Stormwater Retrofit Phase II and III Close-Out **pg. 21-22**
9. Plan Reviews/Submittals
 - a. Plan Reviews and Submittal Summary **pg. 23-29**
 - i. Finnegan-**Action**
 - ii. Zvago-**Action**
 - iii. Moeller-**Inform**
 - iv. Anderson-**Inform**
 - v. Stillwater Trail-**Action**
 - vi. Beske-**Action**
 - vii. Palmer-**Inform**
 - viii. MCES-**Inform**
 - b. Erosion and Sediment Control Inspection Reports **pg. 30-35**
10. Staff Report **pg. 36-39**
11. Other
12. Adjourn

Regular Meeting of the Middle St. Croix Watershed Management Organization
Bayport Public Library, Bayport, MN
Thursday, September 12, 2019
6:00PM

Present: Brian Zeller, Lakeland Shores; Mike Runk, Oak Park Heights; Tom McCarthy, Lake St. Croix Beach; John Fellego, Baytown Township; Ryan Collins, Stillwater; Beth Olfelt-Nelson, St. Mary's Point; Dan Kylo, West Lakeland Township; Anne Perkins, Afton; Cameron Blake, WCD; Administrator Matt Downing.

Other: Dawn Belera, Lake St Croix Beach; Chris Smith, Lake St. Croix Beach

Call to Order

The meeting was called to order at 6:00PM by Manager Zeller. Introductions were made.

Approval of Agenda

A motion to approve the September 12th agenda was made by Manager Runk and seconded by Manager McCarthy. Motion carried.

Approval of Minutes

A motion to approve the August 8th, 2019 minutes was made by Manager Zeller and seconded by Manager Collins. Motion carried.

Treasurer's Report

The treasurer's report was presented by Administrator Downing. The remaining checking account balance is \$259,150.60. First State Bank CDs are valued at \$38,549.15. The ending balance in the RBC savings account for August 2019 is \$64,387.50.

Bills to be approved this month are: Emmons & Oliver: \$1,267.50; Emmons & Oliver: \$1,859.00; Washington Conservation District (Administration- July): \$2,378.50; Washington Conservation District (Technical Services- August): \$11,433.25; Washington Conservation District (Technical Services- July): \$12,275.93; Washington Conservation District (Administration- August): \$3,324.00; Total: \$32,538.18.

The board discussed the unpaid balance from Washington County regarding the 3rd St cash-in-lieu of treatment agreement. Administrator Downing informed the board that he has continued to ask for information regarding when the payment will be made, and that he has requested for the total payment again. He said he has received three responses from staff indicated that they were discussing this internally. Administrator Downing said he gave county staff a deadline of this board meeting date and has still not received clarity on the timing of the payment.

Manager Zeller asked Administrator Downing to forward him documentation on the payment amount of approximately \$118,000. He said he would reach out to Wayne Sandburg at public works. Manager Kylo arrived at 6:03PM. Manager Runk asked Manager Zeller if they should reach out to Commissioner Kriesel. Manager Zeller explained that he believed the cash-in-lieu agreement was made by county staff at the engineering level. He recalled the hesitancy of the MSCWMO board in accepting cash-in-lieu in the first place. Manager Zeller reiterated that he

received a call from Commissioner Kriesel that reflected this possible miscommunication and misunderstanding among the county on this issue.

Manager Runk moved to accept the Treasurer's report and bills, Manager McCarthy seconded, and the motion carried.

Old Business

Manager Olfelt-Nelson asked if Administrator Downing had received the second half of the community contribution from St. Mary's Point. He will check on this.

Finalize 2020 Budget

At the August 8th MSCWMO meeting, the board approved the draft 2020 budget and directed that it be sent to the member communities for review. All of the communities were sent a copy of the 2020 draft on August 13th. Administrator Downing has not received any comments from the communities regarding the proposed changes. Manager Zeller noted that there has been a fair amount of treasurer turnover in the communities in the lower valley. Administrator Downing will double check that everyone has everything they need to know about the 6.97% increase in budget. Manager Runk motioned to finalize the 2020 MSCWMO Budget. Manager McCarthy seconded this, and the motion carried.

2020 WQ Monitoring

Administrator Downing presented the estimate for 2020 water monitoring services. The suggested changes propose to collect the data that will be most valuable to the MSCWMO for making future management decisions, while accounting for a limited monitoring budget. Even with the recommended reductions, the WCD proposal would be \$2,705 over the budgeted 2020 amount for monitoring. Ideally, the MSCWMO would seek to partner with the City of Bayport as was done in 2019 to cover a portion of the lab costs associated with the Microbial Source Tracking on Perro Creek.

The board discussed the Perro Creek microbial source testing in depth. There was discussion about the sampling strategy. Manager Zeller asked if instead of 4 sampling events they could approve the water monitoring budget with 2 sampling events with the understanding that Bayport could pay for the remaining 2 sampling events if this is deemed to be necessary. Administrator Downing explained that his concern with this suggestion is the turnaround time for the tests, and that this may not be conducive to a decision mid-season. Manager Zeller suggested approaching Bayport now so that they will be prepared to pay for the additional sampling events next season. The board agreed on the monitoring recommendations with an adjustment on the MST item from 4 samples at 4 sampling events to 4 samples at 2 sampling events. Manager Fellegly moved to approve the 2020 monitoring estimate as revised, with Administrator Downing to approach the City of Bayport to pay for the last two MST sampling events. Manager Kylo seconded this motion, and the motion carried.

County Board Budget Workshop

Administrator Downing requested a manager to attend the county board budget workshop at October 15th. He explained that the workshop called for a project highlight and that he tried to be diplomatic in the notes regarding the Stillwater Country Club project that is covered in part by the delayed fee-in-lieu of treatment payment from the county. Manager Zeller volunteered to attend and said he felt confident that the MSCWMO's small budget, grant utilization, and

implementation with leveraged funds will be viewed favorably. Administrator Downing will update Manager Zeller on the timing of the workshop when he receives that information himself.

Lily Lake Bioretention Basin/Alum Treatment Grant Application

Administrator Downing informed the board that last year's application was denied due to a technicality, but that he had confirmed that this year's application was submitted correctly. Manager Zeller asked again if Administrator Downing knew of any shovel ready projects. Administrator Downing said he had not identified any, but that there was an issue with one of the two Lily Lake raingardens that were going to be installed this year. Manager Zeller recommended he reach out to respective parties regarding stormwater and erosion issues at the Lakeland Beach Road near the beach. He believes this would be Dave Simons at SEH who Lakeland uses as their engineer. Manager McCarthy asked Administrator Downing about the Lake St. Croix bluff stabilization project/grant application at the catholic church on 3rd St.

Stillwater Country Club Final Payment Request

Manager Runk motioned to approve the final payment of \$190,045.20 to Shoreline Landscaping for the Stillwater Country Club Filtration Basin project. Manager Collins seconded this, and the motion carried. Manager Zeller motioned to hold the MSCWMO October 10th regular board meeting at the Stillwater Country Club at 6pm. Manager McCarthy seconded this, and the motion carried. The board discussed having a tour of the SCC project. If the location is available at this time, there will need to be a notice posted to the MSCWMO website at least 3 days ahead of time.

Finnegan-update, no board action needed

The Finnegan home at 333 Quixote Ave N in Lakeland Shores proposes a home office and porch addition on the north side of the home as well as a deck. A variance request has been submitted to the City of Lakeland Shores and the City advised the applicant on July 8th that the project requires MSCWMO plan review. A MWCWMO review application was received on August 1st, 2019. The project is within the St. Croix Riverway and adds over 500 square feet of impervious surface and therefore requires stormwater management. Additional application materials such as updated impervious areas and rain garden grading plans and cross sections have been requested from the applicant on August 19th, 2019 but materials have not yet been received to complete the review. Manager Zeller noted that this is a unique property with a historical man-made ravine. He said he recommended they consult the WCD on erosion control concerns.

Zvago- update, no board action needed

This project was formerly submitted as the Ecumen Stillwater Senior Living Center in 2017 and approved with conditions but never completed. The project has since changed ownership and has resubmitted a new plan review application and updated required submittal items on July 17th, 2019. The plan review recommendation was sent on August 13th, 2019 to amend the plans to correct seven items and resubmit the plans for further review. Revisions and a resubmittal has not yet been received. Administrator Downing noted he had not heard back from this developer and neither has the local WCA authority Jay Riggs, WCD.

Moeller-review

The existing retaining wall at 2199 River Rd S in St. Mary's Point was severely damaged from the spring flooding on the St. Croix River and requires replacement. An application for MSCWMO project review was received on August 8th, 2019 and a review was completed. The project will involve minor grading within 40 feet of the bluff line and within the St. Croix River buffer to reconstruct the retaining wall. Staff recommends approval with four conditions. Manager Zeller asked for a motion to send this along to the city clerk. Manager Olfelt-Nelson said she thought the city had already approved this project, and noted the importance of this project. She said they had already received review from other parties than the MSCWMO. The board gave new direction to Administrator Downing in regards to plan reviews, and suggested he send review comments right away but to inform the respective parties that any recommendations were subject to MSCWMO board approval. Manager Runk moved to approve the project as recommended by staff. Manager Collins seconded this, and the motion carried.

Anderson-review

The Anderson Corporation located at 100 4th Ave N in Bayport proposes improvements to two existing parking lots referred to as the south lot and lot east of building 30A. The existing lots are gravel which are proposed to be paved with bituminous. Soil borings indicate that the existing surface material is fill material which will serve as the pavement subbase and native soils below the existing fill material will not be exposed or disturbed therefore the bituminous paving is categorized as resurfacing as opposed to reconstruction. The project involves greater than 100 cubic yards of grading and requires a variance from the City of Bayport therefor a project review for compliance with MSCWMO erosion and sediment control standards is applicable however stormwater management standards are not triggered. An application for MSCWMO project review was received on August 21st, 2019. The project goes above and beyond the erosion and sediment control standards by reducing impervious surfaces by 0.2 acres and 13 including stormwater management with two raingardens adjacent to the south lot. Staff recommends approval with four conditions. Manager Zeller noted that Andersen windows has done very well with their plans. Manager Zeller moved to approve the project as recommended by staff. Manager Fellego seconded this, and the motion carried.

Stillwater-review and update, no board action needed

The City of Stillwater proposes to stabilize a section of riverbank and construct a new trail for public recreation along the St. Croix River from south of Dock Café and north of Shoddy Mills. The project will create 0.32 acres of new linear impervious surface. The MSCWMO received the application and materials for project review on August 23rd, 2019. Staff recommends the revision and resubmittal of materials to address ten comments including documenting MSCWMO rate control standards are satisfied and that there are qualifying restrictions on site which preclude meeting the MSCWMO volume control standards. The board discussed the logistics and probable location of the project.

Staff Report

Administrator Downing informed the staff that MSCWMO erosion and sediment control inspections were re-started. Manager Olfelt-Nelson asked for clarification of the program and where it applied. She expressed concern about erosion and sediment control of a home in St. Mary's point and asked who she would speak to about this. The board informed her that the city

inspector would be responsible for enforcement if they chose to, and suggested sending a picture. Administrator Downing noted that communities have the option of using the MSCWMO to do the ECSC inspections.

Manager Zeller updated the board on Lakeland's involvement in the PFAS discussions. He said the PCA came to the Lakeland meeting and he learned that some of the spread is through surface water in the Lake Elmo watershed through historical drainage improvement projects. The board discussed their thoughts on surface water treatment. Manager Kylo said the PCA has not yet identified a treatment protocol for surface water contamination.

Manager Fellegy and Administrator Downing updated the board on the 1W1P process. There are questions about what structure to choose for the implementation of this plan as well as questions regarding the prioritization process for projects. Administrator Downing explained his reservations regarding the direction the prioritization conversation is taking in that it may be setting up another competitive grant structure that favors southern organizations with greater staff capacity. Administrator Downing explained that there are county versions of funding allocation that could be followed instead. Manager Zeller asked if Mike Isensee could be consulted about how the MSCWMO can advocate for this plan to be made more efficient as was the original intention of the plan. Manager Fellegy said he could not make the next Policy Committee meeting on September 30th and that someone else from the MSCWMO boards should try to attend. The group did not recall selecting an official alternate for the 1W1P process but Manager McCarthy motioned that Manager Zeller attend the next meeting in Manager Fellegy's absence. Manager Perkins seconded this, and the motion carried. Administrator Downing will ask Angie Hong to send the preparatory materials to Manager Zeller and will also attend the meeting.

Manager Zeller motioned to adjourn the meeting, Manager Perkins seconded this. The motion carried. The meeting adjourned at 7:01PM.

MIDDLE ST. CROIX WATERSHED MANAGEMENT ORGANIZATION

455 Hayward Avenue N. Oakdale, MN 55128
Phone 651.330.8220 x22 fax 651.330.7747 www.mscwmo.org



MEMORANDUM

TO: Middle St. Croix WMO Board of Managers
FROM: Matt Downing, Interim Administrator
DATE: September 23rd, 2019

RE: 7b.) 3M PFAS Contamination Groundwater Model Technical Services Reimbursement Request

Our consultant at EOR has been reviewing documents and providing technical input on the development of the water supply groundwater model as part of the 3M PFAS settlement. Staff is requesting reimbursement from MPCA totaling \$861.75 (EOR July).

Recommended Board Action- Approve Submittal of 3M PFAS Reimbursement Request Totaling \$861.75

Invoice

Emmons & Olivier Resources, Inc.
7030 6th Street N
Oakdale, MN 55128-6146
Phone 651.770.8448
Fax 651.770.2552
www.eorinc.com

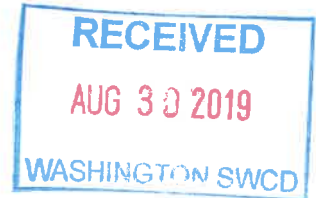


Invoice Total \$861.75

Matt Downing
Middle St. Croix WMO
C/O WCD
455 Hayward Avenue North
Oakdale, MN 55128

August 26, 2019
Invoice No: 00405-0011 - 4

Job 00405-0011 3M Groundwater Model Review



Summary of Work Performed:
•Attend SGI meeting on 6/7/17/2019.
•Update Matt Dowling on project meetings.

Professional Services from July 1, 2019 to July 31, 2019

Professional Personnel

	Hours	Rate	Amount	
Professional 4	5.00	169.00	845.00	
Support Staff	.25	67.00	16.75	
Totals	5.25		861.75	
Total Labor				861.75
		Total this Invoice		\$861.75

**2020 SERVICE AGREEMENT
BETWEEN
WASHINGTON CONSERVATION DISTRICT
AND MIDDLE ST. CROIX WATERSHED MANAGEMENT ORGANIZATION**

A. PARTIES

This Agreement is made and entered into by Washington Conservation District, (WCD), and the Middle St. Croix Watershed Management Organization (MSCWMO).

B. PURPOSE

WHEREAS, the MSCWMO has requested assistance from the WCD to implement the policies specified in MINN. STAT. §§ 103A.206 and 103D.201; and

WHEREAS, the WCD is authorized to enter agreements to provide such assistance pursuant to MINN. STAT. §§ 103C.331, SUBD. 3 and 7 and 103D.335, subd. 21.

NOW, THEREFORE, the parties agree as follows:

C. TERM OF CONTRACT

The term of this agreement shall be from January 1, 2020 to December 31, 2020 unless extended or terminated earlier as provided herein.

D. SCOPE OF SERVICES

The WCD will perform all services and furnish and deliver work products generally described the attached Exhibits.

E. COST

In full consideration for services under this agreement, the WCD shall charge the MSCWMO for its services at the rate set forth in Section F. Costs for services for activities detailed in the attached Exhibits include:

- Exhibit A: Administrative Services - \$33,890.00
- Exhibit B: Technical Services - \$69,971
- Exhibit C: Water Monitoring Services - \$20,455.00

TOTAL: \$124,316.00

Any additional costs for special studies or capital projects must be set forth in a written amendment to this Agreement.

F. BILLING RATE AND PAYMENTS

1. Services in Exhibit A, B and Task 5 in Exhibit C are billed on an hourly basis at the rate of \$29.00 - \$84.00 per hour, based on personnel and task. Invoices for Exhibits A and B will be sent on a monthly basis and will list specifically the work performed.

AIS Watercraft Inspectors	\$29
Seasonal	\$39
Technician	\$59
Senior Technician/Specialist	\$64
Senior Tech II/Specialist II	\$70

Senior Specialist	\$76
Manager/Administrator/Engineer	\$84

Services for BWSR grants will be billed per the BWSR calculator. Tasks 1-4 in Exhibit C are billed on a lump sum basis for services and project expenses. Invoices in Exhibit C will be sent on a quarterly basis.

2. Project expenses will be billed as they are accrued.
3. Invoices are payable by the MSCWMO within 60 days.
4. Office supplies, normal office reproduction expenses, and transportation are included in the hourly rate. Other expenses are to be reimbursed at actual cost.

G. EQUAL EMPLOYMENT OPPORTUNITY- CIVIL RIGHTS

During the performance of this Agreement, the WCD agrees to the following:

No person shall, on the grounds of race, color, religion, age, sex, disability, marital status, public assistance, criminal record, creed or national origin, be excluded from full employment rights in, be denied the benefits of, or be otherwise subjected to discrimination under any program, service, or activity under the provisions of and all applicable federal and state laws against discrimination including the Civil Rights Act of 1964.

H. STANDARDS

The WCD shall comply with all applicable Federal and State statutes and regulations as well as local ordinances now in effect or hereafter adopted. Failure to meet the requirements of the above may be cause for cancellation of this contract effective the date of receipt of the Notice of Cancellation.

I. DATA PRIVACY

All data collected, created, received, maintained, or disseminated, or used for any purpose in the course of the WCD’s performance of the Agreement is governed by the Minnesota Government Data Practices Act, Minnesota 1984, Section 13.01, et seq. Or any other applicable state statutes and state rules adopted to implement the Act, as well as state statutes and federal regulations on data privacy. The WCD agrees to abide by these statutes, rules and regulations and as they may be amended.

J. AUDITS, REPORTS, AND MONITORING PROCEDURES

The WCD will:

1. Maintain records that reflect all revenues, cost incurred and services provided in the performance of the Agreement.
2. Agree that the County, the State Auditor, or legislative authority, or any of their duly authorized representatives at any time during normal business hours, and as often as they may deem reasonably necessary, shall have access to the rights to examine audit, excerpt, and transcribe any books, documents, papers, records, etc., and accounting procedures and practices of the WCD which are relevant to the contract.

K. INDEMNITY

The WCD and the MSCWMO mutually agree, to the fullest extent permitted by law, to indemnify and hold each other harmless for any and all damages, liability or cost (including reasonable attorneys’ fees and costs of defense) arising from their own negligent acts, errors or omissions in the performance of their services under this agreement, to the extent each party is responsible for such damages and losses on a comparative basis of fault. Parties agree to provide proof of contractual liability insurance upon request. This paragraph does not diminish, with respect to any third party, any defense, immunity or liability limit that the WCD or the MSCWMO may enjoy under law.

L. INDEPENDENT CONTRACTOR

It is agreed that nothing herein contained is intended or should be construed in any manner as creating or establishing the relationship of co-partners between the parties hereto or as constituting the WCD as the agent, representative, or employee of MSCWMO for any purpose or in any manner whatsoever. The WCD is to be and shall remain an independent contractor with respect to all services performed under this Agreement.

The WCD represents that it has, or will secure at its own expense, all personnel required in performing services under this Agreement. Any and all personnel of the WCD or other person, while engaged in the performance of any work or services required by the WCD under this Agreement, shall have no contractual relationship with the MSCWMO and shall not be considered employees of the MSCWMO.

M. MODIFICATIONS

Any material alteration or variation shall be reduced to writing as an amendment and signed by the parties. Any alteration, modification, or variation deemed not to be material by written agreement of the WCD and the MSCWMO shall not require written approval.

N. MERGER

It is understood and agreed that the entire agreement of the parties is contained here, except as modified during the term of the Agreement by a writing under Paragraph M above concerning a non-material change, and that this contract supersedes oral agreements and negotiations between the parties relating to this subject matter. All items referred to in this contract are incorporated or attached and deemed to be part of the contract.

O. TERMINATION

Either the WCD or the MSCWMO may terminate this Agreement with or without cause by giving the other party thirty (30) days written notice prior to the effective date of such termination. If the MSCWMO terminates this Agreement, it may specify work to be performed by the WCD before termination is effective and shall pay the WCD for services performed by the WCD up to the time specified for termination. If the WCD terminates the Agreement, it will not be compensated for part completion of a task except to the extent part completion has value to the MSCWMO.

P. OWNERSHIP OF DOCUMENTS AND INTELLECTUAL PROPERTY

All property of the MSCWMO used, acquired or created in the performance of work under this Agreement, including documents and records of any kind, shall remain the property of the MSCWMO. The MSCWMO shall have the sole right to use, sell, license, publish, or otherwise disseminate any product developed in whole or in part during the performance of work under this Agreement.

**2020 SERVICE AGREEMENT
BETWEEN
WASHINGTON CONSERVATION DISTRICT
AND MIDDLE ST. CROIX WATERSHED MANAGEMENT ORGANIZATION**

IN TESTIMONY WHEREOF the parties have duly executed this agreement by their duly authorized officers.

APPROVED:

MSCWMO

WCD

BY: _____
Board Chair Date

BY: _____
Board Chair Date

BY: _____
Secretary Date

BY: _____
WCD Manager Date

Approval as to form and execution:

Date

EXHIBIT A

2020 MSCWMO ADMINISTRATIVE SERVICES AGREEMENT

At the request of the MSCWMO the WCD shall furnish the following services under the terms of the AGREEMENT.

TASK 1. Administrative Services

The WCD will provide administrative services to the MSCWMO. A WCD staff member shall serve as the Administrator of the MSCWMO. This staff member will be appointed by the WCD. The Administrator shall act on behalf of the Board of Managers to implement MSCWMO policies and actions. Administrative services will include: agenda and board packet preparation and distribution; receiving and sending official MSCWMO correspondence; submitting official notices for publication; coordination of meetings for the board, committees and other groups as necessary; maintaining the MSCWMO website; maintaining the MSCWMO files (except for projects conducted by the Watershed's Engineer or confidential legal records); directing activities between the MSCWMO, Engineer, Attorney, Recording Secretary, Local and State Units of Government and the public; acting as the primary and first response to inquiries from the public as to programs, projects and written policies or rules and other questions on MSCWMO issues, and other administrative duties as assigned by the MSCWMO Board.

TASK 2. Bookkeeping

The WCD will provide bookkeeping services to the MSCWMO. These services include: administration of accounts receivable and accounts payable including check generation, preparation of invoices for disbursement, and monthly bank reconciliation; coordination of annual audit and preparation of items necessary for audit; preparation of monthly reporting to the Board; preparation of budgets; and coordination of cash investment activities. The MSCWMO Board will direct any changes to accounts or investments.

TASK 3. Meeting Minutes

The WCD will provide note taking services for all regularly scheduled MSCWMO Board meetings. These services will include a WCD staff member being present at MSCWMO meetings for note taking, and the compilation and presentation of meeting minutes to the board for approval prior to posting as public record.

BUDGET FOR 2020 = \$33,890.00

EXHIBIT B

2020 MSCWMO TECHNICAL SERVICES AGREEMENT

At the request of the MSCWMO the WCD shall furnish the following services under the terms of the AGREEMENT.

TASK 1. Review of Development Plans and Erosion Control Monitoring

The WCD will provide review and comment on development plans on behalf of the MSCWMO. Comments and recommendations for erosion and sediment control, grading, drainage, and wetland protection will be made. Follow-up development site inspections will be performed if deemed appropriate and coordinated with the member communities. Plan Review Fees will offset the cost of this program to the greatest extent possible.

TASK 2. Best Management Practices (BMP) Program Administration

The WCD will act as the primary and first response to inquiries from the public regarding general MSCWMO BMP Program information, program eligibility, and best management practice information. One WCD staff person will be identified as the BMP Program Coordinator. Initial inquiries about general topics and water quality issues, and initial site visits will be responded to as part of the standard WCD programs and not charged under this contact. Specific inquiries regarding MSCWMO cost share, development of site concepts and designs, implementation assistance, receiving and sending official MSCWMO correspondence related to the Program, maintaining the Program files, administering cost-share documents needed as a part of the Program, and follow-up project reviews will be responded to as part of the MSCWMO BMP Program and will be charged as a part of this contract. Overall program coordination, summary reports, and ongoing program evaluation will be provided.

TASK 3. Community Outreach and Education

The WCD will use targeted and broad-based outreach techniques to generate interest in and understanding of the MSCWMO. The techniques used will include participation in local fairs, events, and community group meetings as a representative of the MSCWMO. The WCD will provide technical assistance and information to the citizens and communities of the MSCWMO through this program. This task is separate from but coordinated with the East Metro Water Resource Education Program.

TASK 4. Clean Water Grant Fund Administration and Implementation

The WCD will successfully carryout the work plan items identified in the Clean Water Fund Grants: Lake St. Croix Direct Discharge Phase I and Lake St. Croix Direct Phase II, Lake St. Croix Direct South Phase 1, Perro Creek Phase I, Lily Lake Final 45 grants. The WCD will administer and implement the grants in cooperation with member community staff and in compliance with Board of Water and Soil Resource documentation and reporting requirements.

TASK 5. Establishment Period Maintenance of Clean Water Grant Funded Projects

The WCD will carry out maintenance and outreach activities during the establishment period of two years for targeted stormwater best management practices designed and installed as part of the cooperative retrofit program.

BUDGET FOR 2020 = \$69,971

EXHIBIT C

2020 MSCWMO WATER MONITORING SERVICES AGREEMENT

TASK 1. Lake Monitoring Services

The WCD will monitor McKusick Lake and Lily Lake 14 times per year, April through October. Surface water quality samples are collected and analyzed for total phosphorus, chlorophyll-a, and total Kjeldahl nitrogen. Other measurements include Secchi disk transparency, dissolved oxygen and temperature profiles, and lake level. The fee includes labor, lab costs, all equipment, vehicles, canoe, ice, storage, etc. that is required to conduct the monitoring.

TASK 2. Brick Pond Flow and Water Quality Monitoring

The WCD will install flow monitoring equipment the outfall of Brick Pond to Lily Lake. Water quality samples will be collected and analyzed for total phosphorus and total suspended solids.

TASK 3. Perro Creek Flow and Water Quality Monitoring

The WCD will install flow monitoring equipment at the Perro Creek outfall to Lake St. Croix. Total discharge to Lake St. Croix will be calculated.

TASK 4. Water Monitoring Report

A water monitoring report will be generated that will incorporate current and previous years' data.

TASK 5. Microbial Source Tracking of Perro Creek *E. coli*

The WCD will coordinate with Source Molecular Labs to process and ship samples collected at 4 locations for DNA source tracking of *E. coli* for 2 sampling events. A separate agreement with the City of Bayport may pay for laboratory costs for 2 additional sampling events if results indicate that such sampling is necessary.

Budget for 2020 = \$20,455.00



MEMORANDUM

PROJECT: Lily Lake Retrofits
FROM: Washington Conservation District (Bryan Pynn)
TO: Middle St Croix Watershed Management Organization
DATE: November 14, 2019
RE: **8a) Lily Lake Raingarden Retrofits – FINAL Payment**

Project Background:

In 2019, the MSCWMO Board approved up to \$28,465.00 from Watershed Based Funding for the retrofit of two curb-cut raingardens in the Lily Lake direct-drainage watershed. One of the raingardens (611 Lake Drive) ended up not being a good fit for the site after excavation revealed unmarked utilities, and was therefore removed from the project altogether. The contractor (All Weather Services) will still be compensated for the excavation undertaken up to that point, as well as the site restoration to bring the yard back to existing conditions. The final invoice reflects these changes that were approved by WCD staff and the Interim Administrator. The second garden at 905 Pine Tree Trail was installed and was inspected and approved by WCD staff in early October.

Project Request:

WCD Staff has inspected the installation and change order quantities and is requesting to approval of final payment to All Weather Services in the amount of \$15,398.50 (see attached invoice). The remaining encumbered funds for this project will be allocated to an unidentified ‘qualifying’ project in 2020.

Project Cost Summary:

Encumbered Funds – Watershed Based Funding	\$ 28,465.00
All Weather Services Invoice	\$ 15,398.50
Remaining Encumbrance	\$ 13,066.50

Recommended BWCD Board Action

Motion to approve Final Payment of \$15,398.50 to All Weather Services for the installation of the Lily Lake Raingardens.



All-Weather Services 4535 Osgood Ave. N. Stillwater, MN 55082

Lily Lake Raingarden Retrofits 2019

MIDDLE ST CROIX WATERSHED MANAGEMENT ORGANIZATION
 455 HAYWARD AVE N
 OAKDALE MN 55128-5374

	Quantity	Unit Price	Price
1. Mobilization	Lump Sum	\$300.00	\$300.00
2. Remove Concrete Curb	8 LF	\$10.00	\$80.00
3. Common Excavation	62 CY	\$20.00	\$1240.00
4. Construct Stone Retaining Wall	12 SY	\$360.00	\$4200.00
5. " Perforated HDPE Pipe Drain	20 LF	\$25.00	\$500.00
6. 4" PVC Pipe Drain	20 LF	\$25.00	\$500.00
7. 4" PVC Pipe Drain Cleanout	each	\$250.00	\$250.00
8. 4" gatevalve & assembly	each	\$750.00	\$750.00
9. Rain gaurdain Bunker w/curb pan	each	\$1500.00	\$1500.00
10. Infiltration/Filtration Systems	.5	\$1000.00	\$500.00
11. Connect to existing drainage structure	each	\$1000.00	\$1000.00
12. Sediment control compost log	10 LF	\$5.00	\$50.00
13. Sod restoration	97 SY	\$10.00	\$970.00
14. Subsoiling	.01 AC	\$100.00	\$1.00
15. Engineered soil (70/30 CWS/S.peat)	15 CY	\$85.00	\$1275.00
16. Wood mulch (MNdot type 6)	3 CY	\$60.00	\$180.00
17. Heavy duty lawn edging	15 LF	\$7.50	\$112.50
18. Topsoil fill (addendum)	25CY	\$60.00	\$1500.00
19. Compost Fill (addendum)	7CY	\$70.00	\$490.00

Total Price \$15,398.50

Total Price written Fifteen thousand three hundred ninety eight and 50/100 dollars _____

submitted by Thomas Clark 10/7/19

All-Weather Services
 4535 Osgood Avenue North
 Stillwater, MN. 55082
 P 651.430.3433 F 651.430.2060
awsclark@comcast.net

MEMORANDUM

TO: Middle St. Croix WMO Board of Managers
FROM: Lauren Haydon, BMP Design Senior Technician, Washington Conservation District
DATE: October 18, 2019

RE: Fix Native Planting Cost Share Reimbursement Request

In June of 2018, the MSCWMO board encumbered \$500.00 for a Native Plant grant in BMP cost share funds for installing a 200 sq ft raingarden. An extension was approved by the previous MSCWMO administrator in November of 2018. Throughout the design process, technical staff determined that a raingarden in the proposed location was not appropriate because of the placement of utilities. A new design was proposed for a 650 sq ft native planting that would filter the stormwater runoff from the house and yard, in addition to creating beneficial pollinator habitat.

Project Cost: \$826.30

Amount of Phosphorus Removed: n/a

Cost Share Requested: \$500.00

Requested Board Action:

Motion by Board Member 1, seconded by Board Member 2, to approve final payment of \$500.00 for the installation of the Fix native planting. Please send payment to Grace & Tom Fix at 1975 Quant Ave, Lakeland.

Photos:



Before



After

DRAGONFLY GARDENS
715 268 7666
THANK YOU

REG 09 28 2019 14:45
0001 000016

1 TREE SHRUB T1	\$11.99
6 NATIVE T1	\$240.00
8 NATIVE T1	\$176.00
4 NATIVE T1	\$6.36
1 NATIVE T1	\$4.00
IA1	\$438.35
IX1	\$24.11
TL	\$462.46
CREDIT	\$462.46

der can fit in a mini van? If not, how much do I need to order to
recharge? I'll take the 4" bergamot and take 4 of the 2" Purple

mber 25, 2019, 04:51:23 PM CDT, Dragonfly Gardens
tlook.com> wrote:

APPROVED

ARQC - 69D9C4AEC78878D

CUSTOMER COPY

thing looks good, except we only have Purple prairie clover available in 2"
y have one 4" bergamot left.

2/mile one way from our location at 491 WI HWY 46, Amery, WI 54001
er surcharge.

When would you like us to deliver? (Or have ready for pick-up)?

Thanks,

Hans Klug
715-554-7219
Dragonfly Gardens
Native Plants Manager
dragonflygardens.net/native-plants/

From: Grace Fix <gpchan@yahoo.com>
Sent: Wednesday, September 25, 2019 2:40 AM
To: Dragonfly Gardens <dragonflynatives@outlook.com>
Subject: Re: Inquiry of plants for rain garden

Hi Hans:

Could I order the following plants for my raingarden?....

- | | |
|-------------------------------|-----------|
| 1. Side Oats Grama | 1 Flat |
| 2. Praire Blazing Star | 1.5 Flats |
| 3. Goldsturm Black Eyed Susan | .5 Flat |
| 4. Butterfly Weed | .5 Flat |
| 5. Little Bluestem | 1.5 Flats |
| 6. Anise Hyssop | .5 Flat |
| 7. Ox-Eye Sunflower | .5 Flat |
| 8. Purple Coneflower | .5 Flat |
| 9. Yarrow | 1 Flat |
| 10. Praire Dropseed | 1.5 Flats |
| 11. Sky-Blue Aster | 1 Flat |

$40 \times 6 = 240 (192)$
 $22 \times 8 = 176 (128)$
 $4 \times 1 = 4 (1)$
 $1.59 \times 4 = 6.36 (4)$

426.36
(325)

Buberl Black Dirt, Inc.

6211 Lake Elmo Ave N.
Stillwater, MN 55082
651-430-8185

Invoice

Date	Invoice #
10/8/2019	22961

Bill To
Grace Fix 1975 Quant Ave. N. Stillwater, MN 55082

Description	Amount
7 yards hardwood mulch	175.00T
delivery of mulch	90.00T
Minnesota Sales Tax	18.88
Thank you for your business.	Total \$283.88

Use Your  2%
BIG CARD REBATE

MENARDS

MENARDS - HUDSON
1400 GATEWAY BLVD.
HUDSON, WI 54016

KEEP YOUR RECEIPT
RETURN POLICY VARIES BY PRODUCT TYPE

Unless noted below allowable returns for items on this receipt will be in the form of an in store credit voucher if the return is done after 12/24/19

If you have questions regarding the charges on your receipt, please email us at:
HUDSfrontend@menards.com



Sale Transaction

CONTRACTOR EDGING 40'X5'		
2682138	2 @19.99	39.98
3X100 FABRIC POLYWEB 20Y		
2682585		19.98
3"X25' FOIL FBRL PIPEWR		
6792699		5.98
24" WATER HEATER PAN *		
6831011		6.99
TOTAL		72.93
TAX SAINT CROIX-WI 5.5%		4.01
TOTAL SALE		76.94
VISA CREDIT 0046		76.94
Auth Code:415285		
Chip Inserted		
a000000031010		
TC - 052285756c6eb3ff		

TOTAL SAVINGS 2.97

TOTAL NUMBER OF ITEMS = 5

THE FOLLOWING REBATE RECEIPTS WERE PRINTED FOR THIS TRANSACTION:
7349

GUEST COPY

The Cardholder acknowledges receipt of goods/services in the total amount shown hereon and agrees to pay the card issuer according to its current terms.

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1400 GATEWAY BLVD.
HUDSON, WI 54016

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RETURN POLICY VARIES BY PRODUCT TYPE

Unless noted below allowable returns for items on this receipt will be in the form of an in store credit voucher if the return is done after 12/06/19

If you have questions regarding the charges on your receipt, please email us at:
HUDSfrontend@menards.com



Sale Transaction

CONTRACTOR EDGING 40'X5'		
2682138	2 @19.99	39.98
TOTAL		39.98
TAX SAINT CROIX-WI 5.5%		2.20
TOTAL SALE		42.18
VISA CREDIT 0046		42.18
Auth Code:117023		
Chip Inserted		
a000000031010		
TC - 8ec7f1598e5b2b9a		

TOTAL NUMBER OF ITEMS = 2

THE FOLLOWING REBATE RECEIPTS WERE PRINTED FOR THIS TRANSACTION:
7169

GUEST COPY

The Cardholder acknowledges receipt of goods/services in the total amount shown hereon and agrees to pay the card issuer according to its current terms.

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PLEASE RETAIN FOR YOUR RECORDS.

Now Hiring!

Extra \$3/HR on Weekends

Please Apply in Person

20 of 39



Financial Report

Projects and Practices 2016

Grant Title: Lake St. Croix Direct Discharge Stormwater Retrofit Phase II

Grant ID: C16-7292

Organization: Middle St. Croix River WMO

Grant Revenue	Amount
Total Awarded	\$151,510.00

Grant Expenditures

Grant Activity Category	Amount
Technical/Engineering Assistance	\$46,875.84
Administration/Coordination	\$3,266.01
Urban Stormwater Management Practices	\$94,997.24
Project Development	\$6,370.91
Total Spent	\$151,510.00
Returned Amount	\$0.00
Balance Remaining	\$0.00
Percent Spent	100%

This is to certify that the information is a true and accurate representation of the grant program accounts for the Lake St. Croix Direct Discharge Stormwater Retrofit Phase II- Middle St. Croix River WMO. We believe our records are complete and subject to an audit.

OFFICIAL SIGNATURE

DATE

Please sign, scan, and upload this form to the attachments tab in eLINK.

If returning program funds, please use the Returned Check form.

***Make checks payable and mail to:
Board of Water and Soil Resources
520 Lafayette Road N.
St. Paul, MN 55155***



Financial Report

Projects and Practices 2018

Grant Title: Lake St. Croix Direct Discharge Stormwater Retrofit Phase III

Grant ID: C18-9787

Organization: Middle St. Croix River WMO

Grant Revenue	Amount
Total Awarded	\$33,440.00

Grant Expenditures

Grant Activity Category	Amount
Technical/Engineering Assistance	\$1,044.60
Administration/Coordination	\$1,965.97
Urban Stormwater Management Practices	\$28,653.80
Project Development	\$1,740.60
Total Spent	\$33,404.97
Returned Amount	\$0.00
Balance Remaining	\$35.03
Percent Spent	100%

This is to certify that the information is a true and accurate representation of the grant program accounts for the Lake St. Croix Direct Discharge Stormwater Retrofit Phase III- Middle St. Croix River WMO. We believe our records are complete and subject to an audit.

OFFICIAL SIGNATURE

DATE

Please sign, scan, and upload this form to the attachments tab in eLINK.

If returning program funds, please use the Returned Check form.

Make checks payable and mail to:

Board of Water and Soil Resources

520 Lafayette Road N.

St. Paul, MN 55155



MEMORANDUM

TO: Matt Downing, Interim Administrator
FROM: Rebecca Nestingen, PE
DATE: November 7, 2019

RE: 9a) Plan Reviews/Submittals

The following is a summary of recent activity on projects submittals which qualify for plan review under the MSCWMO 2015 Watershed Management Plan (WMP):

- **Finnegan Home Addition.** The Finnegan home at 333 Quixote Ave N in Lakeland Shores proposes a home office and porch addition on the north side of the home as well as a deck. A variance request has been submitted to the City of Lakeland Shores and the City advised the applicant on July 8th that the project requires MSCWMO plan review. A MSCWMO review application was received on August 1st, 2019. The project is within the St. Croix Riverway and adds over 500 square feet of impervious surface and therefore requires stormwater management. Additional application materials such as updated impervious areas and rain garden grading plans and cross sections were requested from the applicant on August 19th, 2019 and received on November 1st, 2019. *Staff recommends approval with four conditions.*
- **Zvago Stillwater.** This project was formerly submitted as the Ecumen Stillwater Senior Living Center in 2017 and approved with conditions but never completed. The project has since changed ownership and has resubmitted a new plan review application and updated required submittal items on July 17th, 2019. The plan review recommendation was sent on August 13th, 2019 to amend the plans to correct seven items and resubmit the plans for further review. Revisions and a resubmittal was received on October 29th, 2019. *Staff recommends approval with two conditions.*
- **Moeller Retaining Wall Replacement.** The existing retaining wall at 2199 River Rd S in St. Mary's Point was severely damaged from the spring flooding on the St. Croix River and requires replacement. An application for MSCWMO project review was received on August 8th, 2019 and a review was completed. The project will involve minor grading within 40 feet of the bluff line and within the St. Croix River buffer to reconstruct the retaining wall. MSCWMO Board recommended approval with four conditions on September 12th, 2019. *The four conditions were satisfied by the applicant on October 3rd, 2019.*
- **Anderson 2019 Parking Lot Improvements.** The Anderson Corporation located at 100 4th Ave N in Bayport proposes improvements to two existing parking lots referred to as the south lot and lot east of building 30A. The existing lots are gravel which are proposed to be paved with bituminous. Soil borings indicate that the existing surface material is fill material which will serve as the pavement subbase and native soils below the existing fill material will not be exposed or disturbed therefor the bituminous paving is categorized as resurfacing as opposed to reconstruction. The project involves greater than 100 cubic yards of grading and requires a variance from the City of Bayport therefor a project review for compliance with MSCWMO erosion and sediment control standards is applicable however stormwater management standards are not triggered. An application for MSCWMO project review was received on August 21st, 2019. The project goes above and beyond the erosion and sediment control standards by reducing impervious surfaces by 0.2 acres and

including stormwater management with two raingardens adjacent to the south lot. MSCWMO Board recommended approval with four conditions on September 12th, 2019. *The four conditions were satisfied by the applicant on September 17th, 2019.*

- **Stillwater Riverbank Stabilization and Trail.** The City of Stillwater proposes to stabilize a section of riverbank and construct a new trail for public recreation along the St. Croix River from south of Dock Café and north of Shoddy Mills. The project will create 0.26 acres of new linear impervious surface. The MSCWMO received the application and materials for project review on August 23rd, 2019. On September 12th, 2019 MSCWMO staff recommended the revision and resubmittal of materials to address ten comments including documenting MSCWMO rate control standards are satisfied and that there are qualifying restrictions on site which preclude meeting the MSCWMO volume control standards. Revisions and a resubmittal was received on October 18th, 2019. *Staff recommends further revision and resubmittal of four remaining items including hydrologic model revisions to demonstrate rate control standards are satisfied.*
- **Beske Home Remodel.** The Beske home at 1699 Rivercrest Road in Lakeland proposes reconstruction of the main house and guest house on the property. A MWCWMO review application was received on September 25th, 2019. Staff requested additional materials to complete the review on September 26th, 2019. Additional materials were received from the applicant on October 18th, 2019 and November 1st, 2019. *Staff recommends approval with one condition.*
- **Palmer Station.** The proposed 13 home site single-family development in Oak Park Heights is in the final stages of development. MSCWMO recommended approval with five conditions on July 2nd, 2018. The applicant addressed three of the five conditions with resubmitted materials on August 10th, 2018. There are currently two remaining conditions of the approval.
- **Oak Park Heights MCES Interceptor.** Metropolitan Council Environmental Services (MCES) submitted preliminary materials for a sanitary sewer interceptor replacement project in Oak Park Heights. Sections of trail, curb and gutter, and roadway will be reconstructed as part of the interceptor replacement. The impervious surfaces are assumed to be fully reconstructed which trigger MSCWMO volume control standards for linear projects. MSCWMO staff has not yet received a project review application or started the formal review process.

MIDDLE ST. CROIX WATERSHED MANAGEMENT ORGANIZATION

455 Hayward Avenue, Oakdale, MN 55128
Phone 651.330.8220 x22 fax 651.330.7747 www.mscwmo.org



November 5, 2019

Kim Points
City Administrator
City of Lakeland Shores
P.O. Box 246
Lakeland Shores, MN 55043

RE: 333 Quixote Ave S – Finnegan Residence

Dear Ms. Points:

The Middle St. Croix Watershed Management Organization (MSCWMO) received an application for project review and review materials for the proposed Finnegan Home Remodel at 333 Quixote Ave S within MSCWMO boundaries and in the City of Lakeland Shores on August 2nd, 2019. The MSCWMO received revised plans on August 19th and November 1, 2019.

The revised submittals contain sufficient information to determine compliance with the performance standards identified in Section 7.0 of the MSCWMO Watershed Management Plan. The MSCWMO recommends approval with four conditions:

Approve with 4 conditions:

1. Identify type and quantity of temporary erosion prevention practices (ECB/TRM).
2. Identify quantity of sediment control practices (silt fence).
3. Plans shall include contact information including email and a phone number of the person responsible for inspection and compliance with erosion and sediment control.
4. Planting plan identifies permanent vegetation suitable for the hydrology of the basin

The attached review check list highlights the items that require additional information for review.

This review does not constitute approval by the City of Lakeland Shores. MSCWMO review process information can be downloaded from www.mscwmo.org. Please contact me at 651-330-8220 x22 or mdowning@mnwcd.org if you have any questions.

Sincerely,

Matt Downing
MSCWMO, Interim Administrator

MIDDLE ST. CROIX WATERSHED MANAGEMENT ORGANIZATION

455 HAYWARD AVENUE OAKDALE, MINNESOTA 55128
Phone 651.330.8220 x22 fax 651.330.7747 www.mscwmo.org



August 1, 2019 October 31, 2019

Mr. Shawn Sanders
City of Stillwater
406 Fourth Street North
Stillwater, MN 55082

RE: Zvago Stillwater Development

Dear Mr. Sanders:

The Middle St. Croix Watershed Management Organization (MSCWMO) received required submittal items on July 17th, 2019 for the proposed Zvago Stillwater Development (formerly known as Ecumen Stillwater Senior Living Center), located within MSCWMO boundaries and in the City of Stillwater. The proposed project qualifies for full review under the MSCWMO 2015 Watershed Management Plan (WMP).

The MSCWMO has reviewed the project and ~~requests the following revisions be made and the project resubmitted to the MSCWMO to continue the review~~ recommends approval with two conditions:

1. Submit a proposed maintenance agreement, which may be in the format of Appendix K, or other form approved by the City.
- ~~2. Add tabulation quantities of erosion prevention and sediment control BMPs.~~
3. ~~Biofiltration typical section must be updated with the section from the MN Stormwater Manual.~~ For an iron enhanced sand filter the filter surface shall be maintained free of vegetation or grasses. The landscape plan currently shows the filtration basin as seeded.
- ~~4. Biofiltration designs must bypass high flows when the basins are full. High flows are currently routed through the basins.~~
- ~~5. Add pretreatment to remove at least 50% of sediment loads prior to discharge to biofiltration basins.~~
- ~~6. Revise and resubmit the MIDS model.~~
- ~~7. Demonstrate the changes in hydrology do not increase the inundation or bounce of downstream wetlands beyond the limit specified in Table 7.2 for the 2 inch, 24 hour storm event.~~

This recommended approval is based on the technical review of the MSCWMO performance standards and does not constitute approval by the City of Stillwater. The enclosed checklist contains detailed information on project review qualifications and the policies and performance standards of the WMP. MSCWMO review process information can be downloaded from www.mscwmo.org. Please contact me at 651-330-8220 x22 or m Downing@mnwcd.org if you have any questions regarding these comments.

Sincerely,

A handwritten signature in blue ink, appearing to read "Matt Downing".

Matt Downing
Interim Administrator
Middle St. Croix Watershed Management Organization

MIDDLE ST. CROIX WATERSHED MANAGEMENT ORGANIZATION

455 HAYWARD AVENUE OAKDALE, MINNESOTA 55128
Phone 651.330.8220 x22 fax 651.330.7747 www.mscwmo.org



~~September 13, 2019~~ November 6, 2019

Mr. Shawn Sanders
City of Stillwater
406 Fourth Street North
Stillwater, MN 55082

RE: Stillwater Riverbank Stabilization and Trail

Dear Mr. Sanders:

The Middle St. Croix Watershed Management Organization (MSCWMO) received required submittal items on August 23rd, 2019 for the proposed Stillwater Riverbank Stabilization and Trail, located within MSCWMO boundaries and in the City of Stillwater. Revised submittal items were received on October 18th, 2019. The proposed project qualifies for full review under the MSCWMO 2015 Watershed Management Plan (WMP).

The MSCWMO has reviewed the project and requests the following revisions be made and the project resubmitted to the MSCWMO to continue the review:

- ~~1. SWPPP must describe methods used to minimize soil compaction and preserve topsoil.~~
2. Grading and erosion sediment control note 5 stabilization timeframe should be revised to 7 days, not 14, because the side discharges to a special or impaired water.
3. Redundant sediment controls must be provided when a surface water is located within 50 feet of the project's earth disturbances.
4. Linear projects are not exempt from rate and flood control standards. Provide hydrologic and hydraulic computations and tables summarizing peak discharges for the 2-, 10-, and 100-year 24-hour storms.
 - a. *Modelled storage areas do not match construction plans (e.g. depth of rock is shown as 1.8' on plans and as 3.2' in model, side slopes shown as 0.5:1 in plans and 2:1 in model)*
 - b. *Model contains routing errors and storage range exceedance. Run the model using the Dyn-Sto-Ind method and correct storage range errors.*
- ~~5. Volume control requirements are not met. Please demonstrated qualifying restrictions of why infiltration is not feasible or advised. Soils shown in soil boring logs appear to be suitable for infiltration. Options considered and presented shall examine the merits of relocating project elements to address varying soil conditions and other constraints across the site.~~
- ~~6. Provide further evidence and support of the drainage area and impervious surface treated. The ribbon curb does not appear to have sufficient volume or depth to capture the impervious surface runoff volume and significant cross flow would occur. Please also provide evidence of sufficient inlet capacity to route the flow from the ribbon curb into the filter.~~
- ~~7. Provide updated calculations of filtration volume provided. The trapezoidal cross section of the sand filter between the perforated pipes appears to be 8 square feet, not 13 square feet as indicated in the report.~~
- ~~8. Demonstrate the filter drawdown time is less than 48 hours.~~
- ~~9. Filtration devices must have pretreatment which removes 50% of the TSS load. Provide documentation that the sumps are sufficient to remove 50% of the TSS load.~~

10. Identify as-built survey or test method to demonstrate the sand filter is performing as designed prior to the release of any surety.

MSCWMO review process information can be downloaded from www.mscwmo.org. The project review checklist is attached. Please contact me at 651-330-8220 x22 or mdowning@mnwcd.org if you have any questions regarding these comments.

Sincerely,



Matt Downing
Interim Administrator
Middle St. Croix Watershed Management Organization

MIDDLE ST. CROIX WATERSHED MANAGEMENT ORGANIZATION

455 HAYWARD AVENUE, OAKDALE, MINNESOTA 55128
Phone 651.330.8220 x22 fax 651.330.7747 www.mscwmo.org



November 7, 2019

Kate Piscitello
690 Quinnell Ave. N
Lakeland, MN 55043-0643

RE: Beske Home Reconstruction

Dear Ms. Piscitello:

The Middle St. Croix Watershed Management Organization (MSCWMO) received the required submittal items on September 25th, 2019 for the proposed Beske Home Reconstruction, located at 1699 Rivercrest Rd N. within MSCWMO boundaries and in the City of Lakeland. Additional submittal items were requested on September 26th, 2019 and received on October 18th, 2019 and November 1st, 2019. The proposed project qualifies for full review under the MSCWMO 2015 Watershed Management Plan (WMP).

The project, as submitted, contains sufficient information to determine conformance with the Policies and Performance Standards contained within Section 7.0 of the MSCWMO Watershed Management Plan

The MSCWMO recommends approval of the project with one conditions:

1. Identify permanent vegetation suitable for the hydrology of the rain garden.

This recommended approval is based on the technical review of the MSCWMO performance standards and does not constitute approval by the City of Lakeland. The enclosed checklist contains detailed information on project review qualifications and the policies and performance standards of the WMP. MSCWMO review process information can be downloaded from www.mscwmo.org. Please contact me at 651-330-8220 x22 or m Downing@mnwcd.org if you have any questions.

Sincerely,

Matt Downing
MSCWMO Administrator
m Downing@mnwcd.org

**MIDDLE ST. CROIX WATERSHED MANAGEMENT
ORGANIZATION CONSTRUCTION SITE
INSPECTION PROGRAM**

Middle St. Croix WMO
c/o Washington Conservation District
455 Hayward Ave N
Oakdale, MN 55128
Phone: (651) 330-8220 x29
www.mscwmo.org



**EROSION & SEDIMENT CONTROL
INSPECTION REPORT**

Matt and Shannon Stordahl
16884 Island Terr
Lakeland, MN 55044

November 4, 2019
MSCWMO Permit #: **19-006**
Electronic-Mailed (x)

Project: Stordahl Home Reconstruction

Dear Mr. & Mrs. Stordahl:

The Middle St. Croix Watershed Management Organization (MSCWMO) conducted an inspection for erosion and sedimentation control issues at the site noted above on **11-1-2019**. The following report summarizes the field inspection findings and describes areas of compliance/non-compliance. Our inspections will be using the procedures and protocols defined in the Minnesota Pollution Control Agency (MPCA) National Pollutant Discharge Elimination System (NPDES) General Stormwater Permit for Construction Activity.

Inspection information

Is this inspection routine or in response to a storm event: 7 day Rain

Rainfall amount (if applicable): _____

Is site within one aerial mile of special or impaired water that can potentially receive discharge from the site? Yes No

Note: If NA is selected at any time, specify **why** in the comment area for that section.

Erosion prevention requirements

	Yes	No	NA
1. Are soils stabilized where no construction activity has occurred for 14 days (including stockpiles)? (7 days where applicable, or 24 hours during Minnesota Department of Natural Resources [DNR] Fish Spawning restrictions)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Has the need to disturb steep slopes been minimized?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. If steep slopes are disturbed, are stabilization practices designed for steep slopes used?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. All ditches/swales stabilized 200' back from point of discharge or property edge within 24 hours? (Mulch, hydromulch, tackifier, or similar best management practices [BMPs] are not acceptable in ditches/swales if the slope is greater than 2%)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Do pipe outlets have energy dissipation (within 24 hours of connection)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Is construction phasing being followed in accordance with the approved construction plans?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Are areas not to be disturbed marked off (flags, signs, etc.)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments:

Bluff is not disturbed.

Areas where rain gardens are to be constructed are not flagged, but contractor is aware compaction may become an issue and will rip soil before constructing rain gardens if necessary.

Sediment control requirements

	Yes	No	NA
1. Are perimeter sediment controls installed properly on all down gradient perimeters?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Are appropriate BMPs installed protecting inlets, catch basins, and culvert inlets?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Is a required buffer preserved around all streams, lakes, and wetlands during construction?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Has buffer monumentation been installed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Do all erodible stockpiles have perimeter control in place?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Is there a temporary sediment basin on site, and is it built as shown in the approved stormwater management plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Is soil compaction being minimized where not designed for compaction?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Is topsoil being preserved unless infeasible?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

Silt fence enhanced with wood chip biologs are being used in downgradient areas.

Rain garden areas have not been significantly disturbed yet.

Maintenance and inspections

	Yes	No	NA
1. Are all previously stabilized areas maintaining ground cover?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Are perimeter controls maintained and functioning properly, sediment removed when one-half full?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Are inlet protection devices maintained and adequately protecting inlets?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Are the temporary sediment basins being maintained and functioning properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Are vehicle tracking BMPs at site exists in place and maintained and functioning properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Is all tracked sediment being removed within 24 hours?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Have all surface waters, ditches, conveyances, and discharge points been inspected?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8. Were any discharges seen during this inspection (i.e., sediment, turbid water, or otherwise)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

If yes, record the location of all points of discharge. Photograph and describe the discharge (size, color, odor, foam, oil sheen, time, etc.). Describe how the discharge will be addressed. Was the discharge a sediment delta? If yes, will the delta be recovered within seven days and in accordance with item 11.5 of the NPDES permit?

Comments:

No maintenance items need to be addressed.

Other

	Yes	No	NA
1. Are pollution prevention management measures for solid waste, hazardous material, concrete, and truck washing in place?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Is any dewatering occurring on site? If yes, what BMPs are being used to ensure that clean water is leaving the site and the discharge is not causing erosion or scour?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. If chemical flocculants are used, is there a chemical flocculant plan in place?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Will a permanent stormwater management system be created for this project if required and in accordance with Section 15 of the NPDES permit? If yes, describe: 2 raingardens- NW corner and SE corner	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. If infiltration/filtration systems are being constructed, are they marked and protected from compaction and sedimentation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Description of areas of non-compliance noted during the inspection, required corrective actions, and recommended date of completion of corrective actions: Site is in compliance at time of inspection.			
7. Potential areas of future concern: Monitor silt fence and biologs near bluff frequently and address any failures as they occur. Monitor for compaction in proposed rain garden areas. Continue street sweeping as necessary. Ground cover (straw mulch, hydromulch, etc) should be placed before freeze up.			

Maintenance and Compliance Summary

Overall Site Grade: **A**

A status described above as non-compliant indicates a permit violation that must be addressed in accordance with the NPDES Permit. Follow-up inspections will be conducted on a regular basis. Please contact Matt Downing at 651-330-8220 x29 if you have any questions.

Respectfully,

Aaron DeRusha
MSCWMO Inspector
Cc: Matt Downing, MSCWMO

GRADE DESCRIPTIONS

A The site is in full compliance, all practices are in place, and the site is well maintained.

B The site is in compliance, but normal maintenance activities are required.

C The site is not in compliance. Maintenance or supplemental practices are required.

D The site is not in compliance. Erosion and sediment control practices are in poor condition and controllable water resource or off-site impacts are likely. Contact the District for a follow up inspection as soon as correction measures have been taken.

F The site is in severe non-compliance.

**MIDDLE ST. CROIX WATERSHED MANAGEMENT
ORGANIZATION CONSTRUCTION SITE
INSPECTION PROGRAM**

Middle St. Croix WMO
c/o Washington Conservation District
455 Hayward Ave N
Oakdale, MN 55128
Phone: (651) 330-8220 x29
www.mscwmo.org



**EROSION & SEDIMENT CONTROL
INSPECTION REPORT**

Robert Lind
MN Party Bus
1445 Neal Ave
West Lakeland, MN 55042

November 6, 2019

MSCWMO Permit #: **18-010**
Electronic-Mailed (x)

Project: 2nd Street Commercial Development- MN Party Bus

Dear Mr. Lind,

The Middle St. Croix Watershed Management Organization (MSCWMO) conducted an inspection for erosion and sedimentation control issues at the site noted above on **11-1-2019**. The following report summarizes the field inspection findings and describes areas of compliance/non-compliance. Our inspections will be using the procedures and protocols defined in the Minnesota Pollution Control Agency (MPCA) National Pollutant Discharge Elimination System (NPDES) General Stormwater Permit for Construction Activity.

Inspection information

Is this inspection routine or in response to a storm event: 7 day Rain

Rainfall amount (if applicable): _____

Is site within one aerial mile of special or impaired water that can potentially receive discharge from the site? Yes No

St. Croix River

Note: If NA is selected at any time, specify **why** in the comment area for that section.

Erosion prevention requirements

	Yes	No	NA
1. Are soils stabilized where no construction activity has occurred for 14 days (including stockpiles)? (7 days where applicable, or 24 hours during Minnesota Department of Natural Resources [DNR] Fish Spawning restrictions)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Has the need to disturb steep slopes been minimized?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. If steep slopes are disturbed, are stabilization practices designed for steep slopes used?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. All ditches/swales stabilized 200' back from point of discharge or property edge within 24 hours? (Mulch, hydromulch, tackifier, or similar best management practices [BMPs] are not acceptable in ditches/swales if the slope is greater than 2%)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Do pipe outlets have energy dissipation (within 24 hours of connection)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Is construction phasing being followed in accordance with the approved construction plans?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Are areas not to be disturbed marked off (flags, signs, etc.)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments:

Site is open and being actively worked.

Area where rain garden is proposed on NE corner is not protected- will need to be monitored for compaction and infiltration rate.

Sediment control requirements

	Yes	No	NA
1. Are perimeter sediment controls installed properly on all down gradient perimeters?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Are appropriate BMPs installed protecting inlets, catch basins, and culvert inlets?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Is a required buffer preserved around all streams, lakes, and wetlands during construction?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Has buffer monumentation been installed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Do all erodible stockpiles have perimeter control in place?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Is there a temporary sediment basin on site, and is it built as shown in the approved stormwater management plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Is soil compaction being minimized where not designed for compaction?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Is topsoil being preserved unless infeasible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

Silt fence was installed and staked, but not trenched in. The silt fence is not installed correctly and is non-functional.

Due to frozen ground conditions, wood chip logs or similar heavy perimeter control will need to be placed to contain the site.

Maintenance and inspections

	Yes	No	NA
1. Are all previously stabilized areas maintaining ground cover?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Are perimeter controls maintained and functioning properly, sediment removed when one-half full?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Are inlet protection devices maintained and adequately protecting inlets?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Are the temporary sediment basins being maintained and functioning properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Are vehicle tracking BMPs at site exists in place and maintained and functioning properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Is all tracked sediment being removed within 24 hours?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Have all surface waters, ditches, conveyances, and discharge points been inspected?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8. Were any discharges seen during this inspection (i.e., sediment, turbid water, or otherwise)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

If yes, record the location of all points of discharge. Photograph and describe the discharge (size, color, odor, foam, oil sheen, time, etc.). Describe how the discharge will be addressed. Was the discharge a sediment delta? If yes, will the delta be recovered within seven days and in accordance with item 11.5 of the NPDES permit?

Comments:

No sediment tracking observed at time of inspection. Rock entrance is installed.

Other

	Yes	No	NA
1. Are pollution prevention management measures for solid waste, hazardous material, concrete, and truck washing in place?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Is any dewatering occurring on site? If yes, what BMPs are being used to ensure that clean water is leaving the site and the discharge is not causing erosion or scour?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. If chemical flocculants are used, is there a chemical flocculant plan in place?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Will a permanent stormwater management system be created for this project if required and in accordance with Section 15 of the NPDES permit? If yes, describe: 3 raingardens providing 1,545 cf of treatment with sediment pretreatment devices.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. If infiltration/filtration systems are being constructed, are they marked and protected from compaction and sedimentation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Description of areas of non-compliance noted during the inspection, required corrective actions, and recommended date of completion of corrective actions: Silt fence must be trenched in to be effective. Heavy biorolls or similar perimeter control must be installed immediately so it is in place to contain spring and over-winter runoff events.			
7. Potential areas of future concern: Proposed rain garden areas are not protected and being worked in- compaction and infiltration rate will need to be checked before project completion.			

Maintenance and Compliance Summary

Overall Site Grade: **D**

A status described above as non-compliant indicates a permit violation that must be addressed in accordance with the NPDES Permit. Follow-up inspections will be conducted on a regular basis. Please contact Matt Downing at 651-330-8220 x29 if you have any questions.

Respectfully,

Aaron DeRusha
MSCWMO Inspector
Cc: Matt Downing, MSCWMO

GRADE DESCRIPTIONS

A The site is in full compliance, all practices are in place, and the site is well maintained.

B The site is in compliance, but normal maintenance activities are required.

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F The site is in severe non-compliance.

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455 HAYWARD AVENUE, OAKDALE, MINNESOTA 55082
Phone 651.330.8220 x22 fax 651.330.7747 www.mscwmo.org



Staff Report- September/October 2019

Administration

- Prepared 2020 WCD/MSCWMO Service Agreement
- Grant reporting and close out on 3 CWF grants, 1 SCRA
- Updated budget tracker and reconciled missing payments

Project Reviews

- Finnegan Addition, Lakeland Shores (ACTION)
- Zvago, Stillwater (ACTION)
- Moeller Retaining Wall, St. Mary's Point (INFORM)
- Anderson Parking Lot, Bayport (INFORM)
- Riverway Stabilization and Trail, Stillwater (ACTION)
- Beske Home Remodel, Lakeland (ACTION)
- Palmer Station, Oak Park Heights (INFORM)
- MCES Interceptor, Oak Park Heights (INFORM)
- MNDOT TH95 (INFORM)

Lake St. Croix Direct Discharge Phase II and Phase III

Description: \$151,000 (phase II) and a \$34,000 (phase III) grants for stormwater quality improvements in Oak Park Heights, Stillwater and Bayport (2015-2019). Funding is being utilized to work in partnership with the Stillwater Country Club to design a basin to reduce 25.0 lbs. of phosphorus per year discharging into Lake St. Croix.

Activities This Month: Project is constructed and invoices paid. Final grant reporting has been submitted for both phases. Awaiting BWSR response.

Staff: Bryan Pynn-WCD, Matt Downing-MSCWMO

SCRA 2018 LSCI Grant

Description: \$30,000 St. Croix River Association Grant to reduce erosion and nutrients discharging to Lake St. Croix.

Activities This Month: Closing grant and requesting payment week of November 4th.

Staff: Bryan Pynn, WCD

Washington County Transportation Cash-In-Lieu-of-Treatment Funding

Description: Due to steep grades, the fully developed downtown area including several historic properties, and presence of shallow bedrock in some areas Washington County Public Works, Transportation Division proposed and agreed to cash-in-lieu of treatment for the CSAH 23 (3rd Street) Reconstruction project approved by the board of managers on June 14, 2018. The total cash in lieu of treatment amount is \$118,720.00. The funding is being utilized (in conjunction with Lake St. Croix Direct Discharge Phase II and Phase III grant

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funding and St. Croix River Association Lake St. Croix Small Communities Grant) to fund the installation of the Stillwater Country Club bioretention basin.

Activities This Month: Discussion has occurred with Wayne Sandberg and a meeting has been set up for November 19th to discuss the details of the agreement and when to expect payment. No other details have been given yet.

Staff: Bryan Pynn, WCD Matt Downing, MSCWMO

Lily Lake Final – 45

Description: \$58,000 grant to identify and partially design stormwater practices to reduce phosphorous discharges to Lily Lake by at least 45 lbs. per year.

Activities This Month: Provided final items necessary for close out to BWSR. Final payment is in process.

Staff: Bryan Pynn-WCD, Matt Downing-MSCWMO

Perro Creek Water Quality Improvements Phase I and Watershed Based Funding

Description: \$63,000 CWF grant and \$39,124 allocation from CWF Watershed Based Funding to design and install stormwater quality practices to reduce nutrients and bacteria discharging directly into Perro Creek and then to Lake St. Croix.

Activities This Month: Construction postponed until week of Nov. 4th. Planting postponed until spring 2020. Will close out BWSR CWF grant once construction is complete and submit for payment to Bayport at December meeting.

Staff: Tara Kline/Bryan Pynn, WCD

Watershed Based Funding- Lily Lake Raingardens

Description: \$39,636 CWF Watershed Based Funding allocation to improve water quality. The funding is approved to provide the design and installation of two raingardens on Lily Lake in Stillwater.

Activities This Month: One basin installed; other basin removed from project for multiple reasons. Will apply remaining WB funds to another project in 2020.

Staff: Bryan Pynn, WCD

Lake St. Croix Small Communities Phosphorus Reduction Grant

Description: \$200,000 grant for stormwater quality improvement south of Bayport (2019-2021). Planning to work in partnership with City of Lake St. Croix Beach to stabilize the bluff on the north side of town.

Activities This Month: No action. Will reach out to Lake St Croix Beach in mid-November to start design and construction budget conversations.

Staff: Bryan Pynn, WCD

3M PFAS Settlement MPCA Staff Reimbursement Grant

Description: Up to \$20,000 reimbursement of staff time for both the Administrator and consultant (Stu Grub with EOR) to participate in the development of the groundwater model for the PFAS contamination in the southern portion of the watershed.

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Activities This Month: Working with MPCA to determine why only partial payments have been made to the MSCWMO. Submitting another reimbursement request pending board approval.

Staff: Matt Downing, MSCWMO Stu Grub, EOR

Microbial Source Tracking of *E. coli* in Perro Creek

Description: The MSCWMO and the City of Bayport agreed to partner on an effort to identify the source of *E. coli* contamination of Perro Creek. 4 location on the creek were sampled for the presence or absence of human DNA in the bacteria. This effort is above and beyond the concentration monitoring already being conducted by the MSCWMO.

Activities This Month: The third of three sampling rounds were collected by WCD staff and the samples were shipped to the contracted laboratory in Florida for analysis. Results for the samples were received, human markers were present at one of the four sites. .

Staff: Jessica Thiel WCD; Aaron DeRusha, WCD; Matt Downing MSCWMO

Water Monitoring Program

Description: The MSCWMO water monitoring program includes the monitoring of flow at three sites. These sites have that equipment serves to collect data on the total volume of water flowing into Lily Lake at the Greeley Street Inlet, through Perro Creek at the Diversion Structure, as well as, the Perro Creek Diversion Structure Overflow. Water quality is also collected at the Greeley Street Inlet and the Perro Creek Diversion Structure on a monthly basis, as well as during storm events.

Additionally, the MSCWMO monitors two lakes, Lily and McKusick for several parameters from April-October. Data is collected on both lakes on a biweekly basis and includes: water level, clarity, pH, temperature and dissolved oxygen profiles, an aesthetics and user profile, and field conditions. Additionally, water quality samples are collected from the surface of the lakes and analyzed for total phosphorus, total Kjeldahl nitrogen, and chlorophyll.

Activities: The last monthly base flow samples were collected at the Greeley Street Inlet and the Perro Creek Diversion structure. Equipment tracking flow placed in the storm sewer on the Greeley Street Inlet to Lily Lake was removed. The equipment tracking flow at the Diversion Structure and Diversion Overflow on Perro Creek was also removed.

The last samples were collected for both Lily Lake and McKusick Lake. At the last sampling event fall mixing was observed at both lakes representing a shift from summertime stratification. Lily Lake stratifies more strongly and for more of the season than McKusick Lake due to depth and fetch of the lake. The last sampling event marked the 13th round of data collection and samples collected on each water body.

Staff: Rebecca Oldenburg Giebel, WCD; Amanda Herbrand, WCD Aaron DeRusha, WCD; Matt Downing, MSCWMO

Erosion and Sediment Control Inspections

Description: The MSCWMO has contracted with the WCD to conduct erosion and sediment control inspections for construction projects that have been reviewed and recommended for permit approval by partner communities.

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Activities This Month: Inspections were completed on October 2 and November 1 for the Stordahl 1635 Rivercrest Home project (19-006). The site was found to be in compliance in both cases. A windshield survey of the Dewall Subdivision (19-008) was completed and found the project has not yet started. Active work on the 2nd St Commercial- MN Party Bus (18-010) site in Lakeland Shores was discovered on November 1. An inspection found silt fence was installed but not trenched in, and is therefore non-functional. Follow-up with the applicant is occurring and the city has been notified. An email was sent out to active builders reminding them to get perimeter control and ground cover secured before freeze up to protect soils and reduce spring runoff.

Staff: Matt Downing MSCWMO, Aaron DeRusha WCD, Rebecca Nestingen WCD

Meetings

- Inspiration 3rd and 4th Final Punch List, Bayport, September 25th
- Permitting Coordination Meeting, Oak Park Heights, October 9th
- 1WIP Advisory Committee, Forest Lake, October 12th
- County Board Budget Workshop, Stillwater, October 15th
- 2711 Itasca Site Meeting, St. Mary's Point, October 23rd