

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 HELD REMOTELY DUE TO COVID -19 PANDEMIC

Attend ONLINE VIA ZOOM by clicking this link: <https://us02web.zoom.us/j/88075117689>

OR

Attend by CONFERENCE CALL by dialing +1 312 626 6799 – Meeting ID 880 7511 7689

Thursday, March 11th, 2021

6:00PM

1. Call to Order – 6:00PM
 - a. Approval of Agenda
2. Approval of Minutes
 - a. Draft minutes – February 11th, 2021 **pg. 1-7**
3. Treasurer's Report
 - a. Report of savings account, assets for March 11th, 2021
 - b. Approve payment of bills for March 11th, 2021
4. Public Comment
5. Old Business
6. New Business
 - a. EMWREP Annual Report
 - b. 2020 Annual Watershed Report **pg. 8-26**
 - c. Adopt a Drain Membership Request **pg. 27-30**
7. Grant and Cost Share Applications
8. Plan Reviews/Submittals
 - a. Plan Review and Submittal Summary
 - i. 1175 Quinlan Ave-**INFORM**
 - b. Erosion and Sediment Control Inspection Reports-**NONE**
9. Staff Report **pg. 31-33**
10. 1W1P Updates
11. Other
12. Adjourn

Regular Meeting of the Middle St. Croix Watershed Management Organization
HELD REMOTELY DUE TO COVID -19 PANDEMIC

Thursday, February 11th, 2021

6:00PM

Present: Joe Paiement, City of Lakeland; John Fellego, Baytown Township; Mike Runk, Oak Park Heights; Tom McCarthy, Lake St. Croix Beach; Beth Olfelt-Nelson, St. Mary's Point; Brian Zeller, Lakeland Shores; Dan Kylo, West Lakeland Township; Susan St. Ores, Bayport alt; Administrator Matt Downing; Cameron Blake, WCD; Jay Michaels, EOR; Dawn Bulera, Lake St. Croix Beach alt.; Christopher Smith, Public; Matt Hieb, ACA Engineering.

Call to Order

Manager Zeller called the meeting to order at 6:02 PM.

Approval of Agenda

Manager Fellego motioned to approve the agenda as amended and Manager Perkins seconded the motion. The motion passed on a roll call vote with all in favor.

Approval of Minutes

Manager Runk motioned to approve the January 14th minutes and Manager Olfelt-Nelson seconded the motion. The motion passed on a roll call vote with all in favor.

Treasurer's Report

The treasurer's report was presented by Manager Kylo. He asked if the date at the treasurer's report was incorrect. Administrator Downing confirmed that the date was incorrect but the information in the report was accurate. The remaining checking account balance on February 11th for the month of January 2021 was \$388,113.57. First State Bank CDs were valued at \$38,549.15. The ending balance in the RBC savings account for January 2021 was \$71,134.80.

Bills to be approved this month are: Gabriel Curell: \$41.67; Mn Dept of Administration: \$54.00; Mn Dept of Administration: \$54.00; Emmons & Oliver: \$277.75; Emmons & Oliver \$4,079.25; Washington Conservation District (Administration): \$3,435.00; Washington Conservation District (Technical Services): \$5,050.50; Total: \$12,992.17.

Manager Fellego asked Administrator Downing if there was more detailed information for what activities the invoices covered, specifically for the WCD invoices, in order to give them more meaning for the board. Administrator Downing explained that he tracked the different activities in the budget tracker (administration, technical services). Technical services mostly involved permit review fees and other TA time. Administrator Downing said he could begin providing the invoice packets if that was wanted. Manager Fellego did not confirm that this was his request.

Manager Fellego motioned to approve the January 2021 treasurer's report and Manager Runk seconded the motion. The motion passed on a roll call vote. Manager Zeller motioned to pay the February 11th bills and Manager Fellego seconded this motion. The motion passed on a roll call vote.

Public Comment

There was no public comment. Christopher Smith was attending for a permit review later on the agenda.

Old Business

There was no old business.

RFQ for Legal and Engineering Services

Administrator Downing reminded the board that it was time to select the next two year contracts for the MSCWMO's legal and engineering services. They received two letters of interest each for legal and engineering.

For legal services, they received a letter of interest form their current provider, Kennedy and Graven. They also received one from Mendota Consultants PLLC. Manager Zeller led the discussion. Manager Fellegly commented that the rate/fee structure was comparable between the two and asked if there had been any issues with the current provider. Administrator Downing said he had not experienced issues, and had good experiences working with them from the staff level. He felt that Kennedy and Graven had more specific water resource experience. Manager Olfelt-Nelson commented that she would have concerns switching to a sole proprietor shop with a wider range of activity. Administrator Downing agreed with that concern- noting that he had never gone more than 4 or 8 hours for a response with their current provider.

Manager Olfelt-Nelson motioned to continue using Kennedy and Graven for the MSCWMO's legal services. Manager Perkins seconded this and the motion passed on a roll call vote.

For engineering services they received letters of interest from current provider EOR, and WENCK (now part of Stantec). Administrator Downing commented that both proposals were well thought out and written, and noted that Jay Michaels from EOR was present in the meeting. Manager Zeller asked what the annual cost was for engineering. Administrator Downing explained that it varied based on how many grants were received and CIP projects in the works, as the amount of the grant dictated what was spent. He would estimate in the \$30-50,000 range. Manager Zeller asked if everything was going smoothly with their current provider and Administrator Downing confirmed this. Manager Fellegly and Perkins both expressed their interest in staying with their current provider if the MSCWMO is still happy with the work being done and the costs are comparable (if it isn't broke, don't fix it).

Manager Fellegly motioned to continue using EOR for the MSCWMO's engineering services and Manager Perkins seconded this.

Manager Zeller asked if there were other thoughts. Manager Olfelt-Nelson asked Administrator Downing if he had experience with the other provider. Administrator Downing explained that he had experience with WENCK on internal load studying, but that EOR has also done study aspects like this, and had great experience with getting projects on the ground completed. Manager Zeller confirmed that MSCWMO would not be confined by an exclusive agreement with EOR; if the board felt that a specific task could be done by another company they could use them if they wanted. Manager Olfelt-Nelson asked about the merger/acquisition of WENCK by Stantec and the group discussed this. Administrator Downing explained that WENCK said they had a Woodbury office that was potentially closing, but that they wouldn't charge for travel time regardless. Administrator Downing concluded the discussion saying that

EOR was providing good services in many aspects, such as Stu Grubb attending the state PFAS meetings on behalf of the MSCWMO, and he felt comfortable continuing that relationship.

The board had a roll call vote for the motion on the table and the motion passed.

2020 Permit Fee Overage Invoicing

The 2020 MSCWMO Budget and Receivables ended the year at 136% spent. In light of this, the MSCWMO Managers directed Administrator Downing to assess overages and provide a recommendation for recouping losses pursuant to the Joint Powers Agreement. 18 permits had time spent providing comments or guidance in 2020. Upon review of the hours spent, it is Administrator Downing's recommendation that any review that was more than \$500 over the fee collected be invoiced to the respective community. If the board approves this approach, 4 commercial and two single lot reviews will be invoiced. This would result in the recovery of \$5,665 of time not covered by review fees. The \$500 threshold was chosen as it which seems feels justifiable while covering the administrative costs to generate invoices etc.

Manager Fellegy asked who the MSCWMO would be charging and Administrator Downing clarified that it would be charged back to the communities the permits were associated with as they are the permitting authority. It would be up to the communities to charge back to the permit applicants. Administrator Downing explained that the permitting program was over budget by about \$5,000 in 2020. The MSCWMO doesn't charge public entities a review fee. There were a higher than usual amount of pre-application meetings and permit questions going back to 2015, and those costs can't be recouped in the current system.

Manager Fellegy asked if it felt fair to the communities to be charged back to just because the MSCWMO didn't charge enough initially for permitting reviews. Manager Zeller said this was how the agreement is written and it is also stated on the application that overages can be charged back. Manager Olfelt-Nelson said St. Mary's point was having this conversation as well regarding the fee structure and that they used asterisks to mark this point. She said St., Mary's point was trying to do better at viewing the MSCWMO as their staff time, and that this time can change based on the amount of permitting occurring. Administrator Downing echoed that this was how the program was intended to work. Manager Zeller clarified that the \$500 threshold made sense with the MSCWMO absorbing minor overages.

Manager St. Ores asked if there was a breakdown of these 6 permit overages by community which showed which communities would be receiving these invoices. Administrator Downing said there was one that he didn't have on the screen, but that Bayport had one of the projects. The group clarified to her that the communities would receive the invoices if the project being collected on was in their community. The MSCWMO's relationship is with the city, not the permit applicant. The city does not have to absorb the costs unless they choose not to bill it back to the applicant, unless there was a surety which has occurred a few times.

Manager Zeller motioned to approve Staff to send fee overage reimbursement requests for all reviews exceeding \$500 in overage for 2020. Manager Fellegy seconded this motion and the motion passed on a roll call vote. Administrator Downing asked for clarification on if the motion meant to adopt this as a policy and follow up by sending the invoices out, or if the board wished to see the breakdown by community first. Manager's Zeller and Fellegy confirmed their motion meant to adopt this policy and send the invoices out.

The board decided to re-visit this topic next year to determine if the \$500 threshold was working as intended.

Lake St. Croix Direct South Phase II CWF Award

Administrator Downing is asking the board to give him authorization to sign the grant agreement which the MSCWMO received.

Manager Perkins motioned to authorize Administrator Downing to sign the grant agreement and Manager Olfelt-Nelson seconded this motion. The motion passed on a roll call vote.

Hills of Spring Creek

Materials were received for a proposed 195 acre single family residential development in Baytown Township on December 17, 2020. Revised materials were received between January 8, 2021 and February 7, 2021. Stormwater is proposed to be managed utilizing infiltration basins/re-use ponds for irrigation meeting MSCWMO performance criteria. MSCWMO staff recommend approval with eight conditions.

Manager Fellegy said Baytown had taken interest in this project and had contacted him earlier this afternoon on this permit review. He asked if the construction site would be monitoring and if there would be follow up inspections. Administrator Downing clarified the role of the MSCWMO in this process. The MSCWMO does not conduct as-built reviews of the construction or follow up inspections for permitted projects. It is the community's responsibility to do those if they wish. The MSCWMO offers some support in the area of erosion and sediment control inspections for active construction sites but does not delegate enough funding in the budget to perform all that are needed at this scale (those are also the responsibility of the community). Essentially the MSCWMO gives guidance on these topics but it is up to the community to follow through.

ACA engineer Matt Heib is the developer's representative and said the Baytown engineer does inspections during construction. Manager Zeller re-stated that the MSCWMO is not involved with permitted projects after the review process.

Manager Fellegy motioned to approve the project with 8 conditions and Manager Zeller seconded this. The motion passed on a roll call vote.

1175 Quinlan Ave

Incomplete materials were received for a proposed shoreline stabilization project at 1175 Quinlan Ave South in Lakeland on December 21, 2020. A variance from the City of Lakeland for construction within the bluff line will likely be required for the project. MSCWMO staff are awaiting receipt of a complete application package to review the project for conformance with MSCMWO standards.

Administrator Downing explained that the submitted materials were not clear enough to understand the project but appeared to show grading and riprap along the entire bluffline. Manager Zeller said he believed the builder sketched it out rather than the applicant and wanted to make sure there wasn't a miscommunication which could be making the process more difficult and making it seem as though a variance would be needed. He said if the project is just riprap the variance wouldn't be needed but he wanted to make sure this was clearly communicated to the builder. Manager Paiement said the city had not received a variance request yet and that he would reach out to the city engineer.

Manager Perkins suggested the plan be very clear because in Afton there was an issue with the slope being estimated by the landowner and now there is a lawsuit. Manager Zeller noted that

Lakeland was short on staff right now with a new clerk and that could be adding to the challenge. He asked Administrator Downing and Manager Paiement to get the builder and applicant on the right track.

Erosion and Sediment Control Inspection Reports

There are no inspection reports. Manager Zeller said he had noticed some chatter online regarding ice and street salting/sanding. He recalled a street sweeping article and wondered if some more material could be distributed to educate residents on the issue and communicate that more salt wasn't the answer. Administrator Downing said EMWREP produced material and had brochures like this such as SMART salting. The managers discussed their communities and whether the salting/sand application was contracted out, in which case public works are not involved and best practices may not be accounted for. Manager Olfelt-Nelson agreed that the conversation among residents recently has not contained environmental consciousness, rather a desire for increased salting of the roads and tree clearing projects etc. Manager Zeller recalled a SCRA pamphlet being distributed to the communities at one point in time. Manager Perkins recalled a conversation with the Afton council who considered requiring realtors to provide this sort of material to new homeowners. She wondered how this material distribution could be most effective.

Staff Report

Administrator Downing presented the staff report. He noted that the Lily Lake project was quickly changing but thinks it should still be out for spring bid. They are currently working with an apartment complex to address recent activity as well as finding out there was a lot more runoff than originally modeled for the project. The PFAS meetings are ongoing and the 2020 water monitoring report for MSCWMO should be available in March or April.

1W1P Updates: WBIF Workplan Approval

Administrator Downing took the lead in explaining this agenda item. The 1W1P implementation workplan was included in the board packet for review. This would be the workplan for the first 2 year funding cycle and it was already approved by the Policy Committee who recommend approval. Some notable items included: funding for personnel such as an agronomist and shared educator position which would expand EMWREP into the northern part of the LSC basin, structural projects, and non-structural urban projects which may help with MSCWMO with some of their goals. Manager Fellegly explained that it was basically a new funding distribution system for state funding. Administrator Downing explained that the goal was to replace the competitive grant process with a basin-wide plan. Because the 1W1P group decided on a JPC (collaboration) instead of a JPE (entity) structure, each member community had to approve the workplan. The board would need 2/3rds approval and if it was not approved the plan would go back again. Manager Zeller motioned to approve the WBIF workplan and Manager Fellegly seconded this motion. Manager St. Ores asked to abstain from the vote as she was not familiar with this topic. The motion passed on a roll call vote with one abstention.

Other

Administrator Downing was informed of a question between Oak Park Heights and Baytown Township. He is requesting approval from the board to ask legal to assist in identifying the

MSCWMO'S role and responsibility with the situation. He wants to confirm if there is a statutory obligation to engage in the situation due to the situation regarding a cross community drainage question. Manager Zeller said he thought WMO's just served as an advisory role and asked why MSCWMO would get their legal team involved if the communities could just work it out between the two of them. Manager Fellegly explained that he was approached by a Baytown resident who had talked to the mayor but not the council yet. Manager Zeller said he felt nervous about engaging in the issue without a formal request being made to the board.

Administrator Downing explained the issue involved Oak Park Heights property draining onto a Baytown resident's private property and Manager Zeller said this sounded like a civil matter. Administrator Downing said he reviewed 103B and just wants to clarify with legal on if the MSCWMO has any responsibility.

Manager Runk explained that he was talking with Manager Fellegly on this question. The situation involves a property to the south of OPH's and a drainage pipe which has been draining non to the property since 1993. The current landowner is having issues with their property and drainage. OPH has not formally discussed the issue with Baytown yet. The OPH engineer evaluated the system and said the flow is contributing but not dominant and so it was the landowner's responsibility to come up with a project. OPH is willing to contribute to the landowner if a project was needed. The engineer said there has since 1993 there has been new development in the areas which has effected the drainage conditions. The OPH attorney has weighed in and considers the 1993 drainage pipe as grandfathered in; he believes a lot of the drainage issues on the property is related to work and redesigning the landowner did.

Administrator Downing said he may not concur with the drainage analysis by the OPH engineer as it only takes into account peak flows rather than volume. It would be difficult to come to a conclusion of what percentage of drainage it contributes based on that analysis.

Manager Zeller asked what statute would bring the MSCWMO into play on this issue as he sees this as a civil issue. He sees the WMO's role as meant to review and advise but the community is meant to implement. Administrator Downing named 103B and 103E and said the WMO may be the water management authority and there could be involvement with public drainage law. Because there may be some question on the MSCWMO's role he wants to confirm this with legal.

Manager St. Ores asked if there was a clear ask of the WMO because if there was a clear ask there would be a clear question to bring to legal.

Manager Olfelt-Nelson agreed that the ask was not clear or formal. She noted that the municipality engineer could be speaking in their own interest and the resident may see the WMO as a way to get an impartial assessment. But this would need to be clearly asked.

Manager Zeller asked if Manager Fellegly had discussed this with the Baytown board or chair. Manager Fellegly said it was on next month's agenda and that he had just had the resident come to him asking if the OPH's analysis was correct. He explained that the topic had just been raised at the OPH meeting on Tuesday so it was all fresh information. Manager Zeller said Baytown has engineers and legal as well and they could also offer the resident some guidance.

The board decided to wait until there was more information and clarify on what request was being made.

Manager Olfelt-Nelson said St. Mary's point was going to start some roadwork and she wondered if there was potential for stormwater BMP's and possible funding assistance or

technical support from the MSCWMO. Administrator Downing said there may be if it was in a priority location for projects and welcomed the inquiry. She said she sent John Parotti his way.

Adjourn

Manager Zeller motioned to adjourn and Manager Felleggy seconded this. The meeting adjourned at 7:21pm.

MIDDLE ST. CROIX WATERSHED MANAGEMENT ORGANIZATION

2020 ANNUAL REPORT



Lakeland

Prepared by:

MIDDLE ST. CROIX WMO BOARD OF MANAGERS

APPROVAL DATE: April 9th, 2020

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INTRODUCTION

The Middle St. Croix WMO encompasses approximately 19.8 square miles and is located in the east-central part of Washington County. A distinction exists between the Middle St. Croix watershed and the other watersheds of Washington County in that the Middle St. Croix watershed has many small, parallel watersheds that all flow to the St. Croix, whereas the other watersheds in the County generally have one major drainage with a headwaters and outlet. Land use in the watershed is evenly distributed between agricultural uses, rural residential, high-density residential and commercial land uses.

The Middle St. Croix Watershed Management Organization (MSCWMO) is a Joint Powers Watershed Management Organization composed of ten St. Croix Valley communities that was established under State Statute 103B to cooperatively manage water resources within the watershed. The ten member communities of the MSCWMO are: Afton, Bayport, Baytown Township, Lakeland, Lakeland Shores, Lake St. Croix Beach, Oak Park Heights, St. Mary's Point, Stillwater, and West Lakeland Township

In general, the purposes of a Watershed Management Organization (WMO) are to conserve natural resources through land use planning, flood control, and other conservation projects in order to ensure continued public health and welfare. The specific purposes of a watershed management organization are:

- Cooperatively manage water resources in the watershed.
- Inventory and assess the resources of the watershed.
- Monitor the water quality of lakes and streams in the watershed.
- Provide education on water related issues in the watershed.
- Review development plans for stormwater management, erosion and sediment control, and provide wetland and shoreland protection.
- Plan and implement capital improvement projects that enhance the water resources of the watershed.

The mission of the Middle St. Croix Watershed Management Organization is to jointly and cooperatively manage the water resources of the watershed. The ten member communities will do so to conserve and protect the water resources in an efficient and effective manner.

ORGANIZATION AND BUDGET

MSCWMO Board of Managers

Each member municipality or township within the MSCWMO appoints one member to the MSCWMO Board. The 2020 representatives from each participatory community are listed below.

Annie Perkins
4042 River Road S.
Afton, MN 55001
651-592-3007

Tom McCarthy
16455 20th St. S.
Lake St. Croix Beach, MN 55043
651.436.7031

Brian Zeller (Chair)
55 Lakeland Shores Rd
Lakeland Shores, MN 55043
612.325.3038

Beth Olfelt-Nelson
2990 Itasca Ave. S.
St. Mary's Point, MN 55043
651.436.2533

Mike Runk
5525 O'Brien Ave N
Oak Park Heights, MN 55082
651-439-5458

John Fellego
4220 Osgood Ave N.
Baytown Twp., MN 55082
612.275.2200

Ryan Collins
1467 Benson Blvd E
Stillwater MN 55082
651.246.8264

Joe Paiement
1190 St. Croix Trail South
Lakeland, MN 55043
651-436-4430

Dan Kylo
1891 Oldridge Ave. N.
West Lakeland Township, MN 55082
651.436.1134

John Dahl
775 3rd Ave N.
Bayport, MN 55003
651.439.7312

MSCWMO Contract Support Staff

The MSCWMO does not employ staff but does contract with several organizations for professional services. The organizations providing these services are listed below.

Administrator
Matt Downing
Washington Conservation
District
455 Hayward Avenue,
Oakdale MN 55128
651.330.8220 Ext. 22

Attorney
Troy Gilchrist
470 Pillsbury Center
200 South Sixth Street
Minneapolis, MN 55402
612.337.9215
tgilchrist@kennedy-
graven.com

Recording Secretary
Washington Conservation
District
455 Hayward Avenue,
Oakdale MN 55128
651.330.8220 Ext. 27

Table 1: 2020 Budget

Administration Budget	Community Contributions
Administration - General	\$ 31,160
Accounting	\$ 1,550
Legal Fees – General	\$ 1,000
Audit	\$ 2,100
Insurance	\$ 2,600
Office supplies/equipment/postage	\$ 625
Minutes/Clerical	\$ 1,180
Copying/printing	\$ 625
Subtotal	\$ 40,840
Project Budget	
Project Contingency	\$ 2,000
Engineering - Project	\$ 5,700
Development Plan Reviews	\$ 5,040
Erosion Monitoring Program	\$ 2,250
BMP Program Tech. Assistance	\$ 27,768
BMP Program Cost Share	\$ 20,000
Community TA	\$ 3,000
Water Resource Educator	\$ 6,300
Website	\$ 800
Inspection and Tracking Database	\$ 900
Water Monitoring	\$ 22,000
Water Monitoring Equip. Savings	\$ 750
2025 WMP Update	\$5,000
Subtotal	\$ 101,508
TOTAL	\$ 142,348

Table 2: 2021 Budget

Administration Budget	Community Contributions
Administration - General	\$ 31,160
Accounting	\$ 1,550
Legal Fees – General	\$ 1,000
Audit	\$ 2,100
Insurance	\$ 2,600
Office supplies/equipment/postage	\$ 625
Minutes/Clerical	\$ 1,180
Copying/printing	\$ 625
Subtotal	\$ 40,840
Project Budget	
Project Contingency	\$ 2,000
Engineering - Project	\$ 5,700
Development Plan Reviews	\$ 5,040
Erosion Monitoring Program	\$ 2,250
BMP Program Tech. Assistance	\$ 27,768
BMP Program Cost Share	\$ 20,000
Community TA	\$ 3,000
Water Resource Educator	\$ 6,300
Website	\$ 800
Inspection and Tracking Database	\$ 900
Water Monitoring	\$ 22,000
Water Monitoring Equip. Savings	\$ 750
2025 WMP Update	\$5,000
Subtotal	\$ 101,508
TOTAL	\$ 142,348

AUDIT REPORT

Michael Peterson, Certified Public Accountant & Consultant, has been contracted to complete an audit of the financial management of the WMO for the year 2020. Due to the COVID-19 pandemic, this process has been delayed at the time of this report. The audit will be presented to the State of Minnesota and posted to the MSCWMO website upon completion.

DRAFT

2020 PROGRAMS AND PROJECTS

2020 Implementation of Performance Standards

The mission of the MSCWMO is to jointly and cooperatively manage water resources within the WMO and to provide effective and efficient services to the residents of the watershed. To work towards meeting this goal, the MSCWMO adopted Minimal Impact Design Standards (MIDS) developed by the Minnesota Pollution Control Agency. The watershed also provided assistance to member communities to integrate MIDS into local ordinance. Rather than create its own separate permit program, the MSCWMO reviews projects that meet the criteria listed in section 7.0 of the 2015-2025 Watershed Management Plan. Member communities do not issue permits until the project has met all applicable watershed performance standards.

Table 3: MSCWMO Project Reviews and Total Phosphorous Load Reductions of Permanent Stormwater Best Management Practices Estimated with the MIDS Calculator.

Year	Total Projects Reviewed	Total BMP Estimated TP Reduction (lbs./yr.)	Redevelopment BMP Estimated TP Reduction (lbs./yr.)
2016	19	26.7	25.6
2017*	19	133.6	124.7
2018	18	25.8	17.2
2019	13	17.9	6.0
2020	11	51.7	0.2

*2017 includes the permanent stormwater BMPs installed as part of the St. Croix Crossing project.

2020 Projects Implementation

The MSCWMO 2015-2025 Watershed Management Plan targets goal reductions of Total Phosphorus to each of the three major watersheds draining to impaired surface waters listed on the State of Minnesota 303 D list: Lake St. Croix, Lily Lake, and Perro Creek. From 2015 to 2020, table 6.6 of the MSCWMO Watershed Management Plan identifies a total target of 70.1 lbs. total phosphorus load reduction to be completed by voluntary retrofitting. To date, 43 water quality improvement projects have been installed totaling an estimated annual total phosphorus reduction of 173.1 lbs. One large project that would have been installed in 2020 was pushed out to 2021 due to Covid-19 delays.

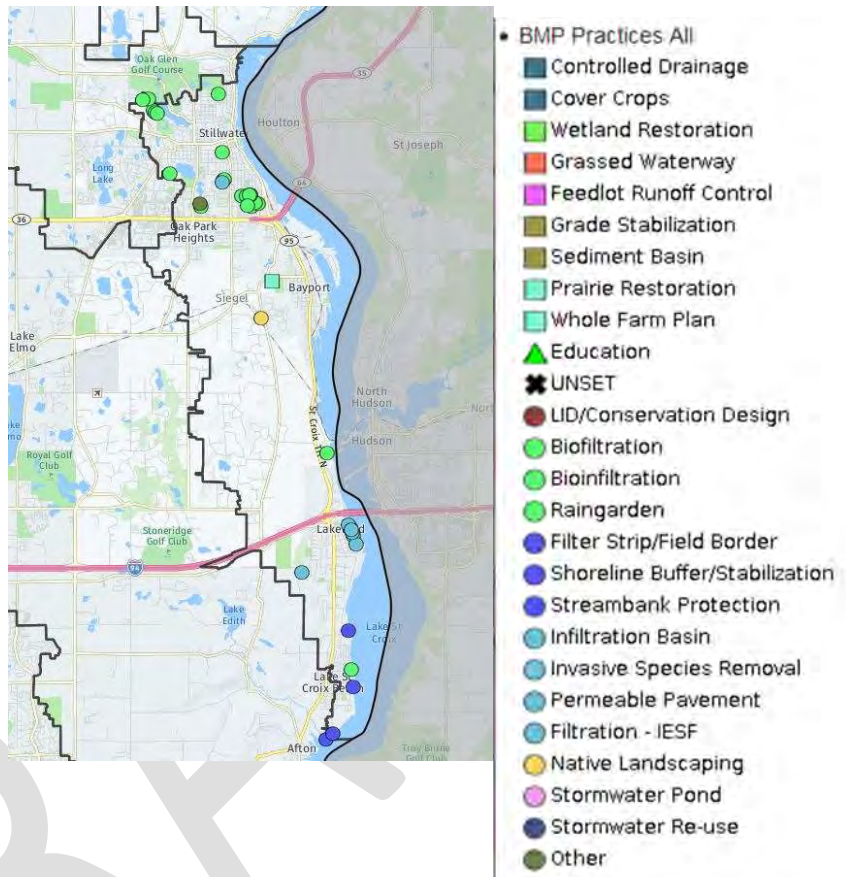


Table 4: MSCWMO Water Quality Retrofits and Total Phosphorous Load Reductions of Permanent Stormwater Best Management Practices Estimated with the MIDS Calculator.

Year		Total Projects Installed	Total BMP Estimated TP Reduction (lbs./yr.)	Targeted Subwatersheds
2015	17	17.3	Lake St. Croix and McKusick	
2016	3	48.8	Lake St. Croix and Perro	
2017	5	10.1	Lake St. Croix and Lily	
2018	6	56.3	Lake St. Croix and Lily	

2019	7	39.4	Lake St. Croix and Lily
2020	4	0.8	Lake St. Croix and Perro

Best Management Practices and Subwatershed Implementation Program

The MSCWMO continues to seek partnerships to construct high-performing and low-cost stormwater best management practices identified in its subwatershed analyses. In 2020, four projects were completed that were either identified in a subwatershed analysis or located in priority direct drainages that were part o these analyses. These projects received local funding and to design and construct:

Local cost share projects that were installed in 2020:

- Perro Creek Buffer Plantings Phase III, Bayport, Perro Creek/Lake St. Croix Watershed
- Private landowner permeable pavers, Stillwater in the Lake St. Croix Subwatershed
- Private landowner Native Planting, Stillwater in the Lake St. Croix Subwatershed
- Private landowner Bluff Restoration, Lakeland, Lake St. Croix Subwatershed

Postponed or delayed projects due to Covid-19:

- Lake St Croix Beach Bluff Restoration, City of Lake St Croix Beach, Lake St Croix Subwatershed

The following is a summary of work that was completed in 2020:

Lake St. Croix Direct South:

In 2018 the MSCWMO completed the Lake St. Croix Direct South Subwatershed Analysis and was successful at securing a 2019 Clean Water Fund Grant and a 2019 St. Croix River Association Grant to design and install high priority projects identified in the report. One large bluff stabilization project is now being designed in coordination with the city of Lake St. Croix Beach. Additionally, during the development of the subwatershed analysis a large actively eroding gully discharging into Lake St. Croix was identified on MnDOT and railroad land. MnDOT is currently designing a repair to the gully and is gully stabilization work will occur in 2020/2021.

Lily Lake, Stillwater:

In 2018 the MSCWMO completed the Lily Lake Delisting Roadmap which identifies projects and treatments to complete the total phosphorus load reductions to Lily Lake and remove it from the impaired waters list by 2022. The final report is located on the MSCWMO website: <http://www.mscwmo.org/subwatershed-assessments>. In 2020 the MSCMWO applied for and received a grant from the Clean Water Fund to install a large-scale infiltration basin at Lily Lake Park and to do an in-lake alum treatment in Lily Lake. The WMO is currently working with city staff on

contracting and hope to complete the basin install in 2021. The project itself will be instrumental in avoiding the TMDL process and potentially delisting the lake for phosphorus impairments.

Perro Creek:

No current Clean Water Fund grants in 2020.

In addition to the subwatershed programs, the MSCWMO continues to promote its Best Management Practices Program during 2020. In 2020, 2 voluntary best management practices were designed and installed in partnership with local residents:

Perro Creek Native Buffer Restoration Phase III, Bayport, Perro Creek Subwatershed

Bluff Edge Restoration (private landowner), Lakeland, Lake St. Croix Subwatershed



Construction Monitoring Program

The MSCWMO construction-monitoring program was developed to ensure that the policies and performance standards of the MSCWMO were implemented on the ground for qualifying projects. Staff continues to monitor projects, which were reviewed by the MSCWMO board. The MSCWMO coordinates its inspection program with its member communities and their building/permit inspectors.

BMP Inspections and Maintenance

The MSCWMO BMP Inspection and Tracking Database was developed to ensure that the installed practices are meeting functional and aesthetic expectations. In 2019, 105 MSCWMO projects were inspected. Utilizing the Washington Conservation District Maintenance Crew, Minnesota

Conservation Corps, and volunteer maintenance was performed on BMPs that are municipalities responsibility to maintain.

The watershed also worked in partnership with the East Metro Water Resource Education Program, Sustainable Stillwater, the Lily Lake Association, and the Stillwater Foundation to develop and Pilot an Adopt a Raingarden Program in Stillwater. The program will continue in 2021.



Groundwater

The MSCWMO continued to recognize the Washington County Groundwater Plan during 2019 and continued to participate in County wide technical advisory committee meetings to prioritize implementation and identify responsible parties for specific activities.

Local Government Controls

The MSCWMO continued to work with its member communities to strengthen water quality and natural resource management. Through a Clean Water Fund Accelerated Implementation grant the MSCWMO is assisting its member communities to update their local controls. In 2018 all communities except Stillwater adopted Minimum Impact Design Standards (MIDS) into local ordinance and code. All communities will continue to participate in the MSCWMO's project review program. The City of Stillwater has drafted MIDS standards

One Watershed One Plan

In 2020, the MSCWMO has worked collaboratively with 15 local governments participating in the Lower St. Croix One Water One Plan planning efforts. The MSCWMO will continue to work collaboratively to develop a coordinated management plan on the large HUC 8 basin scale.

Information and Education Program

Shared Water Resource Educator

The MSCWMO continues to participate in the shared East Metro Water Resource Education Program (EMWREP). During 2020, EMWREP pivoted to a remote education style in light of the COVID-19 pandemic. Emphasis was placed on remote workshops, independent educational events and socially distanced activities when permitted.

In 2020, MSCWMO conducted the following education activities:

- Continuing to promote the Adopt a Drain program and recruit new volunteers
 - There are 127 storm drains adopted in Middle St. Croix WMO
 - Adopters reported collecting 815lb of debris that would have otherwise entered storm drains
- Continuing to support and train Minnesota Water Stewards
 - Gabriel Curell, Barb Bickford, and Mike McCarthy completed their training program and were certified.
 - Curell completed a native planting project on his property in Lake St. Croix Beach. Bickford and McCarthy have been removing buckthorn on their property on Lily Lake and have been active in the lake association.
 - Sally Arnesen, previously certified, has helped neighbors in Lakeland with native plantings on their properties and has also been active with the St. Croix River Association.
- Continuing to coordinate Adopt a Raingarden
 - There are 55 raingardens adopted in Stillwater and Oak Park Heights.
 - Volunteers commit to removing weeds, litter, and built-up sediment during the growing season and reporting larger maintenance concerns to staff at Washington Conservation District.
- Conducting workshops in topics including Planting for Pollinators; Planting for Wildlife; Wild Edibles; and Raingardens.
 - Workshops in 2020 were held via webinar. We had 800 participants via Zoom and 400 via YouTube.
- We published 52 articles in the Stillwater Gazette on a variety of topics
- We had 150 local leaders participate in the 3-part St. Croix NEMO workshop series in June, including staff and officials from MSCWMO communities
- We created dozens and dozens of new educational materials for partners to use for MS4 stormwater education (print materials, videos, municipal training videos, multi-lingual materials)
- We conducted online and in person education for the public, including:
 - Presentation at Career Pathways Program – Oakdale Junior High - Jan. 23

- Girl Scouts watershed program - Stillwater Library - Feb. 5
- Water Pollution Mystery Game at Bayport's Lakeside Park - May 19
- 8 staff members from Xcel Energy participated in a community clean-up event in downtown Stillwater, co-hosted by Community Thread. The group size was intentionally small due to COVID. Sept. 12
- Lily Lake Lake Association Meeting - Oct. 21
- We reached thousands of people through social media, including:
 - Virtual tour of St. Croix Savanna SNA in Bayport:
<https://www.facebook.com/watch/?v=1236817173376647> (1.7K views on Facebook and YouTube)
 - Mountain biking and stormwater in Oak Park Heights:
<https://www.facebook.com/watch/?v=269815867497925> (371 views on Facebook and YouTube)
 - Native plant garden tour in Stillwater:
<https://www.facebook.com/watch/?v=1968931263405361> (950 views on Facebook, YouTube, IGTV)
 - Scooters and stormwater in Stillwater:
<https://www.facebook.com/watch/?v=353703275805698> (475 views on Facebook and TikTok)
 - Adopt-a-Drain promo – 2112 views on Instagram reels and TikTok
- We supported Sustainable Stillwater MN on a variety of initiatives, including:
 - Giant clean-up of the Lily Lake buffer planting
 - Creating a Green Business Directory (Stillwater area businesses certified include: Lakeview Hospital (Gold), IPS-Solar (Gold), VistaTek/SelfEco (Gold), Joseph's Restaurant (Silver), Valley Outreach (Silver), ArtReach St. Croix (Bronze), First Presbyterian Church (Bronze), FamilyMeans (Bronze))
 - Adopt a Drain and Adopt a Raingarden

The MSCWMO will continue providing funding and staff time to support EMWREP in 2021.

A full report of EMWREP activities completed in 2020 can be viewed at the following link:

<http://www.mnwcd.org/s/2020-EMWREP-Annual-Report.pdf>

Website

The MSCWMO continued to update its website in 2020. The website contains up to date meeting dates, agendas, minutes, annual reports, water monitoring information, contact information and more. In addition, the website also contains a section for grant reporting which highlights projects completed as part of the BWSR Clean Water Legacy Program. The website also contains a tab “for developers” and “for builders” which provides all necessary information on the MSCWMO’s project review process. The MSCWMO website can be viewed at the following link:

<http://www.mscwmo.org>

2020 Data Collection Program

Water Quality Monitoring Program

In 2020 the Middle St. Croix Watershed Management Organization (MSCWMO) continued condition monitoring and water quality and elevation biweekly on McKusick Lake and Lily Lake. Information from the Brown's Creek Diversion Drainage which flows to McKusick Lake is monitored by the Brown's Creek Watershed District, but resulting information is also provided to the MSCWMO for use in management planning. The MSCWMO established a permanent monitoring station at the storm sewer connection from Brick Pond to Lily Lake. This station will measure the annual volume of water and concentration of phosphorous flowing from Brick Pond to Lily Lake. The MSCWMO monitored volume and concentration of discharge for both based flow and storm flows from Perro Creek and intensified bacteria sampling efforts to more accurately identify areas impacted by high *E. coli* levels. The watershed partnered with the City of Bayport to conduct genetic testing of *E. coli* to determine if it is human or not.

Full water monitoring reports can be viewed on our website. The 2020 monitoring report will be available in July of 2021.

<http://www.mscwmo.org/water-monitoring>

2021 WORKPLAN

Best Management Practices Program

The MSCWMO will continue to promote its Best Management Practices Program in 2021. The MSCWMO will continue to work to engage landowners in the Lily Lake, McKusick Lake, Perro Creek, Lake St. Croix Direct Discharge North and South subwatersheds.

Subwatershed Analyses and Implementation

In 2021 the MSCWMO will continue working with the City of Stillwater, City of Bayport, City of Lake St. Croix Beach, other member communities, MnDOT, and private landowners to design and install targeted stormwater quality best management practices identified in subwatershed analyses. The MSCWMO received a Clean Water Fund Grant to implement the findings of the Lake St Croix Direct Discharge (South) SWA and the Lily Lake watershed. Outreach for priority locations in the southern half of the watershed will commence in 2021. The Lily Lake grant is moving forward with design and install of an infiltration basin at Lily Lake Park and a subsequent in-lake alum treatment.

Water Monitoring

The MSCWMO will continue water quality condition monitoring program for Lily and McKusick Lakes and Perro Creek. The MSCWMO will be expanding the data and water quality samples collected on Perro Creek in 2021 to include a continuous monitoring station. The MSCWMO has hired the Washington Conservation District to complete monitoring and reporting again in 2021. The MSCWMO is planning to apply for funding to monitor the volume and concentration flowing out from the Mulberry Ravine and select stormwater outfalls in the City of Stillwater discharging directly into Lake St. Croix.

Public Education and Outreach Programs

The MSCWMO will continue to participate in the East Metro Water Resource Education Program. The activities and programs offered through this partnership will help MSCWMO meet its goals for education and outreach.

Lower St. Croix One Watershed One Plan

The MSCWMO will continue to work collaboratively with 15 units of government charged with water governance in the Lower St. Croix HUC8 watershed to implement a coordinated management plan.

Development Plan Reviews and Erosion Monitoring Program; MSCWMO Policies and Performance Standards

The MSCWMO will continue to review qualifying projects for consistency with the 2015 Watershed Management plan, and will continue to coordinate its review process with its member communities. Staff will also continue to monitor current and past projects to ensure stormwater management features are functioning as planned. The MSCWMO will promote trainings and events that will improve performance on future projects.

Website Update and Maintenance

The MSCWMO continues to update and maintain its website.

APPENDIX A

2020 Annual Communications

AFTON

The City of Afton is one of ten member communities of the Middle St. Croix Watershed Management Organization (MSCWMO) that collectively works to improve the water quality of Lake St. Croix. The MSCWMO provides educational, technical, and financial assistance to the City of Afton to effectively manage water resources. They also partner with the Washington Conservation District to provide design and cost share assistance for voluntary conservation projects on private lands that reduce sediment and phosphorous pollution entering the St. Croix River. If you are considering a conservation project on your property or have any questions about the MSCWMO watershed please contact Matt Downing, Administrator of the MSCWMO at mdowning@mnwcd.org or Annie Perkins, the City of Afton appointed MSCWMO Board Manager at 651-592-3007.

BAYPORT

The City of Bayport is one of ten member communities of the Middle St. Croix Watershed Management Organization (MSCWMO) that collectively works to improve the water quality of Perro Creek and Lake St. Croix. The MSCWMO provides educational, technical, and financial assistance to the City of Bayport to effectively manage water resources. They also partner with the Washington Conservation District to provide design and cost share assistance for voluntary conservation projects on private lands that reduce sediment and phosphorous pollution entering Perro Creek and the St. Croix River. If you are considering a conservation project on your property or have any questions about the watershed please contact Matt Downing, Administrator of the MSCWMO at mdowning@mnwcd.org or Council Member John Dahl the City appointed Board Manager on the watershed, at 651-439-7312.

BAYTOWN TWP

Baytown Township is one of ten member communities of the Middle St. Croix Watershed Management Organization (MSCWMO) that collectively works to improve the water quality of Lake St. Croix. The MSCWMO provides educational, technical, and financial assistance to Baytown Township to effectively manage water resources. They also partner with the Washington Conservation District to provide design and cost share assistance for voluntary conservation projects on private lands that reduce sediment and phosphorous pollution entering the St. Croix River. If you are considering a conservation project on your property or have any questions about the watershed please contact Matt Downing, Administrator of the MSCWMO at mdowning@mnwcd.org or Township Board Member John Fellegly, the Township appointed Board Manager on the watershed, at 651-275-2200.

LAKELAND

The City of Lakeland is one of ten member communities of the Middle St. Croix Watershed Management Organization (MSCWMO) that collectively works to improve the water quality of Lake St. Croix. The MSCWMO provides educational, technical, and financial assistance to the City of Lakeland to effectively manage water resources. They also partner with the Washington

Conservation District to provide design and cost share assistance for voluntary conservation projects on private lands that reduce sediment and phosphorous pollution entering the St. Croix River. If you are considering a conservation project on your property or have any questions about the watershed please contact Matt Downing, Administrator of the MSCWMO at mdowning@mnwcd.org or Council Member Joe Paiement, the City appointed Board Manager on the watershed, at 651-206-5200.

LAKELAND SHORES

The City of Lakeland Shores is one of ten member communities of the Middle St. Croix Watershed Management Organization (MSCWMO) that collectively works to improve the water quality of Lake St. Croix. The MSCWMO provides educational, technical, and financial assistance to the City of Lakeland Shores to effectively manage water resources. They also partner with the Washington Conservation District to provide design and cost share assistance for voluntary conservation projects on private lands that reduce sediment and phosphorous pollution entering the St. Croix River. If you are considering a conservation project on your property or have any questions about the watershed please contact Matt Downing, Administrator of the MSCWMO at mdowning@mnwcd.org or Mayor Brian Zeller, the City appointed Board Manager on the watershed, at 612-325-3038.

LAKE ST CROIX BEACH

The City of Lake St. Croix Beach is one of ten member communities of the Middle St. Croix Watershed Management Organization (MSCWMO) that collectively works to improve the water quality of Lake St. Croix. The MSCWMO provides educational, technical, and financial assistance to the City of Lake St. Croix Beach to effectively manage water resources. They also partner with the Washington Conservation District to provide design and cost share assistance for voluntary conservation projects on private lands that reduce sediment and phosphorous pollution entering the St. Croix River. If you are considering a conservation project on your property or have any questions about the watershed please contact Matt Downing, Administrator of the MSCWMO at mdowning@mnwcd.org or Mayor Tom McCarthy, the City appointed Board Manager on the watershed, at 651-436-7031.

OAK PARK HEIGHTS

The City of Oak Park Heights is one of ten member communities of the Middle St. Croix Watershed Management Organization (MSCWMO) that collectively works to improve the water quality of Perro Pond and Lake St. Croix. The MSCWMO provides educational, technical, and financial assistance to the City of Oak Park Heights to effectively manage water resources. They also partner with the Washington Conservation District to provide design and cost share assistance for voluntary conservation projects on private lands that reduce sediment and phosphorous pollution entering Perro Pond or St. Croix River. If you are considering a conservation project on your property or have any questions about the watershed please contact Matt Downing, Administrator of the MSCWMO at mdowning@mnwcd.org or Council Member Mike Runk, the City appointed Board Manager on the watershed, at (651) 439-5458.

ST. MARY'S POINT

The City of St. Mary's Point is one of ten member communities of the Middle St. Croix Watershed Management Organization (MSCWMO) that collectively works to improve the water quality of Lake

MIDDLE ST. CROIX WATERSHED MANAGEMENT ORGANIZATION

St. Croix. The MSCWMO provides educational, technical, and financial assistance to the City of St. Mary's Point to effectively manage water resources. They also partner with the Washington Conservation District to provide design and cost share assistance for voluntary conservation projects on private lands that reduce sediment and phosphorous pollution entering the St. Croix River. If you are considering a conservation project on your property or have any questions about the watershed please contact Matt Downing, Administrator of the MSCWMO at mdowning@mnwcd.org or Council Member Beth Olfelt-Nelson, the City appointed Board Manager on the watershed, at 612-417-5394.

STILLWATER

The City of Stillwater is one of ten member communities of the Middle St. Croix Watershed Management Organization (MSCWMO) that collectively works to improve the water quality of Lily Lake, Lake McKusick, and Lake St. Croix. The MSCWMO provides educational, technical, and financial assistance to the City of Stillwater to effectively manage water resources. They also partner with the Washington Conservation District to provide design and cost share assistance for voluntary conservation projects on private lands that reduce sediment and phosphorous pollution entering Lily Lake, Lake McKusick, or the St. Croix River. If you are considering a conservation project on your property or have any questions about the watershed please contact Matt Downing, Administrator of the MSCWMO at mdowning@mnwcd.org or Council Member Ryan Collins, the City appointed Board Manager on the watershed, at 651-246-8264.

WEST LAKELAND TWP

West Lakeland Township is one of ten member communities of the Middle St. Croix Watershed Management Organization (MSCWMO) that collectively works to improve the water quality of Lake St. Croix. The MSCWMO provides educational, technical, and financial assistance to West Lakeland Township to effectively manage water resources. They also partner with the Washington Conservation District to provide design and cost share assistance for voluntary conservation projects on private lands that reduce sediment and phosphorous pollution entering the St. Croix River. If you are considering a conservation project on your property or have any questions about the watershed please contact Matt Downing, Administrator of the MSCWMO at mdowning@mnwcd.org or Board Member Dan Kylo, the Township appointed Board Manager and Treasurer for the watershed, at 612-436-1134.

Adopt-a-Drain in Middle St. Croix, 2020

Annual Report

44
new participants
in 2020

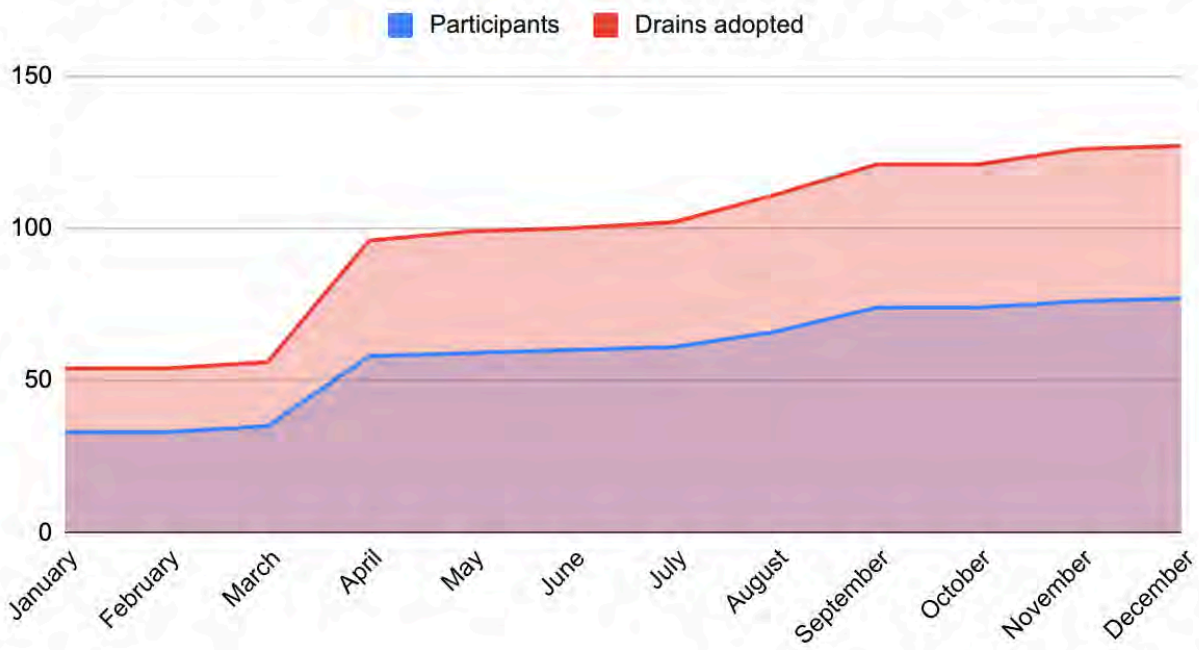
73
drains adopted
in 2020

77
total participants

127
total adoptions



New participants and drains adopted in Middle St. Croix, 2020



2020 Reporting Data

31 Middle St. Croix participants reported cleanings, which represents 40.3% of all Middle St. Croix participants.

Middle St. Croix participants collected 815.0 lbs of debris from their adopted storm drains in 2020.

Debris Type	Amount (lbs)
Brown leaves	395.9
Grass and green leaves	121.5
Sediment and dirt	296.3
Trash	1.3
Salt	0.0



In 2019, the total amount reported was 247.3 lbs.

Month	New participants	Drains adopted	Debris collected (lbs)	Time spent (hours)
January*	0	0	90.2	9.5
February	0	0	0.0	0.0
March	2	2	24.0	0.5
April	23	40	97.8	3.5
May	1	3	29.4	1.1
June	1	1	67.0	1.3
July	1	2	6.0	1.3
August	5	9	56.2	2.1
September	8	10	11.0	0.3
October	0	0	228.6	4.5
November	2	5	204.8	2.4
December	1	1	0.0	0.0
TOTALS	44	73	815.0	26.5

*January total includes year-end reports from 2019.

Geographic Breakdown: City and Subwatershed

Drains adopted: Cumulative total

Debris collected: 2020 data only.

City	Drains adopted	Debris collected (lbs)	Time spent (hours)
Stillwater	94	644.5	20.4
Oak Park Heights	20	81.5	3.0
West Lakeland Twp.	7	47	2.6
Bayport	6	42	0.5

Subwatershed	Drains adopted	Debris collected (lbs)	Time spent (hours)
Lake St Croix Direct North	48	298.2	14.3
McKusick Lake	26	127.3	4.5
Lily Lake	23	282.0	3.6
Lake St Croix	19	18.5	1.0
Middle St. Croix Wetlands	7	47.0	2.6
Perro Creek	4	42.0	0.5

METRO WATERSHED PARTNERS



MINNESOTA WATER
LET'S KEEP IT CLEAN

INVOICE

651-523-2812
jlarson25@hamline.edu

Attention: Matt Downing
Middle St Croix WMO
455 Hayward Avenue
Oakdale, MN 55128
Date: 1/28/21

Metro Watershed Partners
Hamline University
1536 Hewitt Ave. MS-A1760
Saint Paul, MN 55104

Project Title: Clean Water Minnesota
Terms: 30 Days

Description	Cost
2021 Membership: Clean Water MN and Adopt-a-Drain	\$500.00
TOTAL	\$500.00

Benefits of membership

- You and your colleagues are invited to attend our monthly meetings, to network and share information with other watershed education professionals, and to hear monthly speakers on topics relevant to our work. The Watershed Partners meet on the second Wednesday of the month from 9 – 11 am. Right now all meetings are held on Zoom.
- You and your colleagues are invited to be added to our listserv on Mobilize, where you can receive meeting notifications and partner updates, and send messages to, and receive announcements from, other partners. If you would like to be added to Mobilize, please email Jana Larson (jlarson25@hamline.edu) and request to be added.
- Your organization will be listed as a supporting partner on cleanwatermn.org/about-us
- Your organization will be listed as a supporting partner on adopt-a-drain.org whenever someone clicks on a drain in your service area, and on email communication to adopters in your area.
- You will have access to an administrative portal on Adopt-a-Drain.org that allows you to access data about drains and program participants in your area.
- You will receive an annual report that includes summary data about drains and program participants in your area.
- You are able to access modifiable print resources to promote Adopt-a-Drain to residents in your area here: <https://www.cleanwatermn.org/resources-for-partners/> Please follow the style guide when modifying these resources. (This is password protected.)
- Portable educational exhibits are available for checkout. Find more information at: <https://www.cleanwatermn.org/resources-for-partners/>
- For an additional fee, participants in your area can receive yard signs and a printed "welcome kit" in the mail. Please contact Jana Larson for more information.

Duration of service: January 1 - December 31st, 2021. Unspent funds will rollover to support program activities in 2022.

MIDDLE ST. CROIX WATERSHED MANAGEMENT ORGANIZATION

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



Staff Report- February 2021

Administration

- Prepared February meeting materials
- Coordination of Grant and Permit Program

Project Reviews

- 1175 Quinlann-INFORM

Lily Lake Phosphorus Reductions for Delisting – CWF Grant C20-6055

Description: Awarded \$513,500 for in-lake alum treatment and filtration basin to remove 120lbs of phosphorus from Lily Lake.

Activities This Month: Met with Emmons, Olivier Resources (EOR) for design meeting for the Lily Lake Park basin. Draft 90% plans were completed and reviewed by MSCWMO staff. City of Stillwater staff have been engaged and will review the final plans once more. Awaiting reply from Apartment landowner behind the site to integrate their runoff issues with our site improvements. That solution will be part of the final design.

Staff: Bryan Pynn-WCD; Matt Downing-MSCWMO

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: No activities.

Staff: Bryan Pynn - WCD

Lake St. Croix Small Communities Phosphorus Reduction Grant – PHASE I

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: Interim reporting per BWSR requirements has been completed. Requested 40% payment. Reconciled grant with BWSR to receive 40% payment approval. Payment in processing. Work will resume in the spring and grant will be closed upon completion.

Staff: Bryan Pynn - WCD; Matt Downing – MSCWMO

Lake St. Croix Small Communities Phosphorus Reduction Grant – PHASE II

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455 HAYWARD AVENUE, OAKDALE, MINNESOTA 55082
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Description: \$158,000 grant for stormwater quality improvement south of Bayport (2021-2023). Implement practices in the LSCD South SWA area to achieve a load reduction of up to 7lbs of TP/yr.

Activities This Month: Awarded grant in January 2021. Working with BWSR to develop workplan for grant. Once workplan is approved, contract will come to board and first payments from BWSR to MSCWMO will be processed in April.

Staff: Bryan Pynn - WCD; Matt Downing - MSCWMO

3M PFAS Settlement MPCA Staff Reimbursement Grant

Description: Up to \$40,000 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.

Activities This Month: None.

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 locations 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: Sampling has concluded and results will be reported in the 2020 Annual Monitoring Summary.

Staff: Rebecca Oldenburg Giebel, WCD

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 This Month: Data collected is being analyzed and compiled and will be presented in the 2020 Annual Monitoring Summary. Post season testing and maintenance of equipment has identified one stage-velocity sensor to be evaluated by the manufacturer.

Staff: Rebecca Oldenburg Giebel, WCD, Aaron DeRusha, WCD

MIDDLE ST. CROIX WATERSHED MANAGEMENT ORGANIZATION

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



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.

Activities This Month: None

Staff: Aaron DeRusha WCD

BMP Maintenance

Description: The MSCWMO has a maintenance obligation for its Capital Improvement Projects and projects funded by Clean Water Fund grants. The MSCWMO partners with the Washington Conservation District to fulfill this maintenance requirement.

January Activities: No update.

Staff: Cameron Blake, WCD

Meetings

- Floodplain Vulnerability Assessment-February 3rd
- Lily Lake Basin – February 10th
- Lily Lake Basin – February 11th