

Board of Managers Meeting Agenda

Wednesday - January 12th, 2022 - 3:00 p.m. Held Remotely Online

1.	Call Meeting to Order 1.1 Public Comment / Introductions Audience members may address the Board regarding items not on the agenda. Please limit to three	minutes
	1.2 Approval of Agenda* (Additions/Corrections/Deletions)	Action
2.	2022 Election of Officers (Chair, Vice Chair, Secretary/Treasurer)	Action
3.	Approve December 8 th , 2021 Meeting Minutes - Chair*	Action
4.	Approve January 12th, 2022 Financial Summary & Invoices - Treasurer*	Action
5.	Review of Existing LMRWMO Goals, Strategies, and Policies - Barr*	Discussion
6.	Metro Watershed Partners 2022 Program Participation - SWCD*	Discussion/Action
7.	Illicit Discharge Video Participation - SWCD*	Discussion/Action
8.	Updates and Handouts 8.1 Watershed Plan Update Status - Barr 8.2 Other Updates / Member City Updates	Information Information
9.	Agenda Items for Next Meeting: February 9th, 2022 - Held Remotely	

10. Adjourn

*Materials included in full packet **Materials available separately on website: www.dakotacountyswcd.org/watersheds/lowermisswmo/agendas.html

Remote Zoom Meeting Information on Following Page.

Please note, the January 12th, 2021 LMRWMO Board meeting will take place via teleconference by phone and/or the web-based application, Zoom, at 3:00 pm. Please visit the meeting listing below for instructions on how to participate.

LMRWMO January 12 Board Meeting

Time: January 12, 2022 3:00 - 5:30 PM Central Time

Join Zoom Meeting

https://dakotacountymn.zoom.us/j/92776155046?pwd=R1F2a3Y0ck1hS1IFcTBCK2xBS0 V1UT09

Meeting ID: 927 7615 5046 Passcode: 577390

Dial by your location +1 651 372 8299 Meeting ID: 927 7615 5046 Passcode: 577390

LMRWMO Board of Managers Typical Officer Elections Process

(Modified from Robert's Rules of Order)

General

It can be helpful for elections to follow the nomination for each individual office. For example, nominate and elect the Chair, then nominate and elect the Vice-Chair, then nominate and elect the Secretary/Treasurer. The main advantage here is that it allows members to consider the election results of one office before proceeding to the election of another office.

Nominations for an Office

Nominations can be made in a few ways:

- From the floor any member can call out a person to be nominated
- By the chair the chair can nominate any member or themselves for a position
- A member can nominate themselves

Nominees don't have to leave the room during nominations, when a vote is taken, or when the vote is counted. If there are multiple nominees and the Chair would like to use a roll call, they can ask the multiple nominees to step out of the room to keep the vote anonymous.

A person can serve in more than one office if elected.

Motions to close nominations are unnecessary. The Chair waits until no one wishes to make further nominations, then the chair declares nominations closed after asking 3 times for more nominations.

Election for an Office Options to Utilize at Board Chair Discretion

If only one candidate, they can easily be elected via a voice vote:

• Board Chair: "John Smith has been nominated for the office of Vice-Chair, do we have a motion for John Smith to serve as the LMRWMO Vice-Chair for 2018?" Motion is then seconded and passed.

If multiple nominations, can do a voice vote:

• Ask members to raise their hand for Candidate A, count hands. Then ask to raise hands for Candidate B, count hands. This can tend to favor the candidate listed first.

If multiple nominations, can do a roll call vote:

• Each member announces their vote when their name is called. The secretary repeats the vote after recording it, to ensure accuracy. Nominees could remain in room or be asked to leave room.

If multiple nominations, can do a ballot vote:

• Ask nominees to leave room and then ask members to raise their hand for Candidate A, count hands. Then ask to raise hands for Candidate B, count hands. Call nominees back into room. This could be a more fair way to vote with multiple candidates.

3.0 December 8, 2021 Draft Meeting Minutes



MEETING MINUTES Board of Managers Regular Meeting December 8, 2021 - 3:00 p.m. Meeting Held Remotely Online

Managers and Alternates in Attendance:

Sharon Lencowski, Chair - Inver Grove Heights Mary Jeanne Schneeman, Mendota Heights Michael Randle, South Saint Paul Lyle Hanzal, Lilydale Karen Reid, Vice Chair - Saint Paul Julie Eastman, West St. Paul Jill Smith, Mendota Heights Shannon Nelson, Sunfish Lake

Advisors and Others in Attendance:

Krista Spreiter, Mendota Heights Cody Joos, West St. Paul Tom Kaldunski, Inver Grove Heights Greg Williams, Barr Engineering Pat Murphy, Saint Paul Sue Polka, South St. Paul Ryan Ruzek, Mendota Heights Joe Barten, Dakota County SWCD

1. Call Meeting to Order

The meeting was called to order by Chair Lencowski at 3:00 pm.

1.1 Public Comment / Introductions

Audience members may address the Board regarding items not on the agenda.

1.2 Approval of Agenda (Additions/Corrections/Deletions)

MOTION by Eastman to approve the agenda for the current meeting, second by Randle; Roll call approval by Lencowski, Schneeman, Randle, Eastman, Nelson, Hanzal; motion passed.

2. Approval of the October 13th, 2021 Meeting Minutes

Lencowski asked if there were any changes to the previous meeting minutes.

MOTION by Eastman to approve the previous meeting minutes, second by Hanzal; Roll call approval by Lencowski, Randle, Eastman, Hanzal; motion passed. Schneeman and Nelson abstained.

3. Approval of the December 8th, 2021 Financial Summary & Invoices

Spreiter summarized the information in the packet and recommended approval of the financial summary.

MOTION by Hanzal to approve the previous meeting minutes, second by Eastman; Roll call approval by Lencowski, Schneeman, Randle, Eastman, Nelson, Hanzal; motion passed.

4. FY 2022-23 Watershed Based Implementation Funding (WBIF) Presentation

Barten presented on the upcoming funding round for the Board of Water & Soil Resources Watershed Based Implementation Funding program. Barten noted that as part of the upcoming process, the Board will need to designate someone as the decision-making representative for the LMRWMO and that in previous funding rounds, the Administrator had served in that function.

MOTION by Eastman to designate the LMRWMO Administrator as the decision-making representative for FY 2022-2023 WBIF meetings and planning purposes, second by Schneeman; Roll call approval by Lencowski, Schneeman, Randle, Eastman, Nelson, Hanzal; motion passed.

5. Review of Existing LMRWMO Strategies and Policies

Williams summarized the information in the packet. The Board went through the individual items in the goals, strategies, and policies document for consideration.

The Board will resume discussion on this item at the January 2022 meeting.

6. Set 2022 Meeting Schedule and Discuss Remote vs. In Person Meetings

The Board discussed the 2022 meeting schedule and meeting remotely vs. in person.

MOTION by Schneeman to meet remotely through March 2022 and then re-assess the future, second by Hanzal; Roll call approval by Lencowski, Schneeman, Randle, Eastman, Nelson, Hanzal; motion passed.

7. Review and Provide Feedback on LMRWMO Website

Barten informed the Board that the site was complete and that he can still make small edits.

8. Review MN Water Stewards Application

Barten noted that only one application was received and that the Vermillion River JPO was willing to sponsor the applicant. He suggested not funding the applicant and directing them to the JPO. Barten will still attend some meetings and be in contact with the applicant through the process.

9. Updates and Handouts

9.1 Grant Tracking Update

Williams noted the upcoming grants currently in their application period.

9.2 Watershed Plan Update Status

Williams noted that TAC and CAC meetings are being scheduled for January.

9.3 TMDL Training Notes

Barten noted that he attended a TMDL training and has received notification of approval for a one-year grant extension to the Fiscal Year 2019 Watershed Based Implementation Funding grant, to now expire on Dec. 31st 2022.

9.4 Pine Bend Status Update

Barten stated that he met with with project stakeholders and is waiting on information from the I-State trucking.

9.5 Other Updates / Member City Updates

Member City representatives provided updates on projects in their City.

10. Agenda Items for Next Meeting: January 12th, 2022 - Held Remotely

11. Adjourn

Meeting adjourned by Chair Lencowski at 5:10 pm.

4.0 Financial Summary and Invoices



FINANCIAL SUMMARY December 9, 2021 to January 12, 2022

Beginning Ba	alance - Key	Community Ba	ank			\$194,629.23		
Interest	11/30/2021	November 2021	I Interest		+ + +	\$9.45		
Deposits	12/22/2021	League of MN C	Cities Insurance	Trust Dividend 2021	+ + +	\$920.00		
To be approv	ed at this m	neeting:						
Key Community Bank: - Bank Fee 11/30/2021 November 2021 Paper Statement - 3736 1/12/2022 Barr Engineering - 3737 1/12/2022 Metropolitan Council - Available Balance at Key Community Bank - -								
<u>Gateway Ban</u> <u>Savin</u> Deposits Ir	n <mark>k Accounts</mark> a <u>as</u> aterest	<u>::</u> 12/31/2021		Balance	+	\$71,381.04 \$24.25		
			Ending	Balance	-	<u>\$71,405.29</u>		
Check	<u>king</u>			Balance		\$1,000.00		
		Balance	-	<u>\$1,000.00</u>				
Available Bal	ance at Gat	eway Bank				<u>\$72,405.29</u>		
Available Bala	ance - Key	Community & G	ateway Banks			<u>\$263,000.97</u>		
					5 			

*Balance includes dedicated funds to 4th Generation Watershed Plan



MEMORANDUM

To: Nancy Bauer

From: Joe Barten, LMRWMO Administrator

Subject: Lower Mississippi River WMO - Financial Actions

Date: December 14, 2021

Enclosed please find the following check for the LMRWMO to be deposited:

\$920.00 check from the League of MN Cities which is the insurance dividend for 2020.

Thank you and please contact me with any questions.

Bart

Joe Barten Administrator Lower Mississippi River Watershed Management Organization

Enclosed: Check from League of MN Cities

c/o Dakota County Soil and Water Conservation District 4100 220TH St. West Suite 102 Farmington, MN 55024 www.dakotaswcd.org/watersheds/lowermisswmo/



DIVIDEND ANNOUNCEMENT

December 9, 2021

Dear Member,

We are pleased to enclose a check for your share of the \$15 million dividend being returned to members of the League of Minnesota Cities Insurance Trust's property/casualty program. Also enclosed is your dividend history and an information sheet showing the data used to calculate your dividend. Your agent will also receive this information, and we encourage you to share it with your city council or other governing body.

Why is a dividend being returned?

If the Trust's fund balance reaches a level where it's more than sufficient to pay claims and plan for contingencies, the Trust is able to return funds to its members. We undertake this evaluation every year based on losses experienced by members, actuarial projections, investment results, legislative and coverage changes, reinsurance costs, and the Trust's long-term strategic direction.

What is the dividend formula?

Dividends are calculated based on a formula that recognizes members with a longer history of coverage with the Trust and greater success in avoiding and controlling claims. Your share was determined based on the calculations shown on the enclosed information sheet.

Is there any pattern or trend to the amount of dividend to expect in the future?

Members should not include dividend returns in their yearly budget projections, because the amount will fluctuate from year to year. The amount of a given year's dividend return has no bearing on the amount returned the following year.

We want to thank you for your continued membership with the Trust. We appreciate your confidence and the chance to partner with you to serve your community. Feel free to contact Laura Honeck, Trust Operations Manager, at <u>honeck@lmc.org</u> or (651) 281-1280 if you have any questions.

The League of Minnesota Cities Insurance Trust Board of Trustees

Jake Benson, Councilmember, Proctor Dave Callister, City Manager, Plymouth Clint Gridley, City Administrator, Woodbury Anna Gruber, City Administrator, Sartell D. Love, Mayor, Centerville Dave Unmacht, Executive Director, LMC Alison Zelms, Administrator, Rochester

LEAGUE OF MINNESOTA CITIES INSURANCE TRUST PROPERTY/CASUALTY 2021 DIVIDEND CALCULATION AT MAY 31, 2021

First National Insurance

Po Box 130 Farmington MN 55024-0130



The "gross earned premium" figure is the member's total earned premiums as of May 31, 2021 for the past 20 years. This is the premium ligure that's used in the dividend calculation. The "2023 written arcmium" ligure is the member's total premium for the member's most recent members, only a portion of that 2021 written premium would be earned as of May 31, 2021

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INVOICE

Please note our new remittance address

Ms. Nancy Bauer Lower Mississippi River Water Mgmt. Org. City of Mendota Heights 1101 Victoria Curve Mendota Heights, MN 55118 Barr Engineering Co. 4300 MarketPointe Drive, Suite 200 Minneapolis, MN 55435 Phone: 952-832-2600; Fax: 952-832-2601 FEIN #: 41-0905995 Inc: 1966

Remittance address: Lockbox 446104 PO Box 64825 St Paul, MN 55164-0825

December 22, 2021 Invoice No: 23190078.00 - 241

Total this Invoice \$456.00

Regarding: Watershed Management Organization

The following invoice is for professional services related to the above project, which include:

- Material preparation and review ahead of the planned November 10, 2021 Board of Managers meeting (content postponed until December meeting)
- Communicating with LMRWMO Administrator and project management

Professional Services from October 30, 2021 to November 26, 2021

Job	2020	2020 Engineering Services	5			
Task	001	Board Meetings				
Labor Charg	jes					
			Hours	Rate	Amount	
Enginee	r / Scientist / Speci	alist III				
Will	iams, Sterling		2.00	150.00	300.00	
			2.00		300.00	
	Subtota	l Labor				300.00
				Task S	ubtotal	\$300.00
Task	002	Technical Assistance				
Labor Charg	jes					
			Hours	Rate	Amount	
Principa	1					
Kief	fer, Janna		.20	180.00	36.00	
Support	Personnel II					
Nyp	oan, Nyssa		1.20	100.00	120.00	
			1.40		156.00	
	Subtota	l Labor				156.00
				Task S	ubtotal	\$156.00
				Job S	ubtotal	\$456.00
				Total this	Invoice	\$456.00

PLEASE REMIT TO ABOVE ADDRESS and INCLUDE INVOICE NUMBER ON CHECK.

Terms: Due upon receipt. 1 1/2% per month after 30 days. Please refer to the contract if other terms apply.

Thank you in advance for your prompt processing of this invoice. If you have any questions, please contact your Barr Project Manager, Janna M. Kieffer Phone: 952-832-2785 or E-Mail: jkieffer@barr.com.

Barr declares under the penalties of law that this account, claim or demand is just and no part of it has been paid.

Authorized By:

iffer Jamas K

Janna Kieffer

Project	23190078.00	Lower Mississip	opi River		Invoice	e 241
Billir	ng Backup				Wednesday, Decen	nber 22, 2021
Barr End	gineering Co.		Invoice 241 Dated	12/22/2021		12:00:36 PM
		inni innif dini inni inni inni inni inni	tens land land land land land and sent and and land land land	t same bing have been aver and been love and	بالمعار ومحر ومدر ومدر بعد العد العد العد المدر ومدر ومدر المدر المدر المدر المدر المدر المدر المدر ا	
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Task	001	Board Meetings				
Labor C	harges					
			Hours	Rate	Amount	
Enginee	r / Scientist / Specialist III					
	Engineer / Scientist / Spe	cialistIII				
SGW	3 - Williams, Sterling	11/2/2021	1.00	150.00	150.00	
SCM	Materials for Board me	eting (PPD to Dec)	1.00	150.00	150.00	
2010	3 - Williams, Sterling Meeting prep with Adr	11/23/2021	1.00	150.00	150,00	
	meeting prep with Au	In instructor	2.00		300.00	
	Subtotal L	abor				300.00
				Task	Subtotal	\$300.00
Task	002	Technical Assista	nce	i tara lana laran mart yang mart yang laran la	nd mant lands land lands lands lands lands doted lands date lands dated lands	net hold Tant Hold Socia Hold Lord Anat and A
Labor C	harges					
			Hours	Rate	Amount	
Principal	l					
	Principal					
JMK2	1 - Kieffer, Janna invoice review	11/22/2021	.20	180.00	36.00	
Support	Personnel II					
	Support Personnel II					
NJN	9 - Nypan, Nyssa	11/1/2021	.70	100.00	70.00	
NJN	9 - Nypan, Nyssa	11/23/2021	.50	100.00	50.00	
			1.40		156.00	
	Subtotal L	abor				156.00
				Task	Subtotal	\$156.00
				dot	Subtotal	\$456.00
				Total thi	s Project	\$456.00

Total this Report \$456.00



INVOICE

Please note our new remittance address

Mr. Joe Barten Lower Mississippi River Water Mgmt. Org. c/o Dakota County SWCD Suite 102 4100 220th Street West Farmington, MN 55024 Barr Engineering Co. 4300 MarketPointe Drive, Suite 200 Minneapolis, MN 55435 Phone: 952-832-2600; Fax: 952-832-2601 FEIN #: 41-0905995 Inc: 1966

Remittance address: Lockbox 446104 PO Box 64825 St Paul, MN 55164-0825

December 22, 2021 Invoice No: 23191436.00 - 13

Total this Invoice \$1,845.00

Regarding: Fourth generation update to the Lower Mississippi River WMO Watershed Management Plan

This invoice is for professional services, which include the following:

- Continuing draft edits to Plan goals, strategies, and policies
- Meeting with LMRWMO Administrator to review draft revisions to performance standards
- Drafting memorandum to the Board of Managers to facilitate review of draft goals, strategies, and policies (including performance standards)
- General communicating with LMRWMO Administrator and project management

Job	Task	(Contract Budget	P	reviously Billed	Invoice Amount	Тс	otal Billed	Balance		
	1A0	\$	1,210.00	\$	2,162.00	\$ -	\$	2,162.00	\$	(952.00)	
	1B0	\$	2,930.00	\$	1,025.00	\$ 	\$	1,025.00	\$	1,905.00	
FNIC	1C0	\$	1,550.00	\$	898.50	\$ -	\$	898.50	\$	651.50	
ENG -	1D0	\$	<u>ч</u>	\$:=:	\$ 2 4 0	\$	<u>ب</u>	\$	-	
Engagement	1E0	\$	3,580.00	\$		\$ 	\$	e 1	\$	3,580.00	
Engagement	1F0	\$	3,520.00	\$	818.00	\$ 	\$	818.00	\$	2,702.00	
	1G0	\$	4,880.00	\$	4,676.00	\$ 5	\$	4,676.00	\$	204.00	
	1H0	\$	3,170.00	\$	2,915.00	\$	\$	2,915.00	\$	255.00	
	2A0	\$	6,890.00	\$	4,820.00	\$ 	\$	4,820.00	\$	2,070.00	
PLAN -	2B0	\$	6,730.00	\$		\$ 2 2	\$	- 	\$	6,730.00	
Prepare Draft	2C0	\$	6,840.00	\$	2,505.00	\$ 1,845.00	\$	4,350.00	\$ 2	2,490.00	
Plan	2D0	\$	7,540.00	\$	-	\$ 14	\$	1 23	\$	7,540.00	
	2E0	\$	7,710.00	\$	(7)	\$ -	\$	#	\$	7,710.00	
	3A0	\$	4,240.00	\$	-	\$ 14	\$	5	\$	4,240.00	
REV - Review	3B0	\$	3,600.00	\$	-	\$ 	\$	=:	\$	3,600.00	
and	3C0	\$	<u>.</u>	\$	-	\$ (e)	\$		\$	-	
Adoption	3D0	\$	5,000.00	\$	-	\$ 	\$		\$	5,000.00	
	3E0	\$	2,260.00	\$	ан а	\$ (P	\$	<u>م</u>	\$	2,260.00	
Total		\$	71,650.00	\$	19,819.50	\$ 1,845.00	\$	21,664.50	\$4	9,985.50	

Professional Services from October 30, 2021 to November 26, 2021

PLAN

Job

Prepare Draft Plan

Project	23191436.00	LMRWMO 4th Generation P	lan		Invoice	13
Task	200	review policies and performan	ice stds			
Labor Chai	rdes	review policies and performan	ec stus			
	3	н	ours	Rate	Amount	
Engine	er / Scientist / Special	list III				
Wi	illiams, Sterling		11.50	150.00	1,725.00	
Suppo	rt Personnel II					
Ny	/pan, Nyssa		1.20	100.00	120.00	
			12.70		1,845.00	
	Subtotal	Labor				1,845.00
				Task S	ubtotal	\$1,845.00
				Job S	ubtotal	\$1,845.00
				Total this	Invoice	\$1,845.00

Thank you in advance for your prompt processing of this invoice. If you have any questions, please contact Greg Williams, your Barr project manager at 952.832.2945 or email at gwilliams@barr.com.

Barr declares under the penalties of law that this account, claim or demand is just and no part of it has been paid.

Authorized By:

Jama Kitler

Janna Kieffer

\$1,845.00

Billing Backup

Wednesday, December 22, 2021

Invoice

Barr Eng	ineering Co.	Invc	ice 13 Dated 1	2/22/2021		12:06:14 PM
Job	PLAN	Prepare Draft Plan				
Task	2C0	review policies and per	formance stds			
Labor Cl	harges					
			Hours	Rate	Amount	
Engineer	r / Scientist / Specialist III					
	Engineer / Scientist / Speci	alistIII				
SGW	Williams, Sterling	11/1/2021	4.00	150,00	600.00	
	edits to policy/perf stds					
SGW	Williams, Sterling	11/2/2021	4.00	150.00	600.00	
	edits to policy/perf stds					
SGW	Williams, Sterling	11/22/2021	2.10	150.00	315.00	
	Edits to policies for boar	d review				
SGW	Williams, Sterling	11/23/2021	1.40	150.00	210.00	
	memo for packet					
Support	Personnel II					
	Support Personnel II					
NJN	Nypan, Nyssa	11/1/2021	.70	100,00	70.00	
NJN	Nypan, Nyssa	11/23/2021	.50	100,00	50.00	
			12.70		1,845.00	
	Subtotal La	bor				1,845.00
				Task S	ubtotal	\$1,845.00
				Job S	\$1,845.00	
				Total this	Project	\$1,845.00

Total this Report



MEMORANDUM

To:Nancy BauerFrom:Joe Barten, LMRWMO AdministratorSubject:Lower Mississippi River - Financial ActionsDate:December 30, 2021

Enclosed please find the following invoice for payment:

 \$2,660.00 to the Metropolitan Council for the Citizen Assist Monitoring Program (CAMP) as indicated on the attached billing statement for water monitoring laboratory analysis and other costs.

Thank you and please contact me with any questions.

Joe Barten

Joe Barten Administrator Lower Mississippi River Watershed Management Organization

Enclosed: Metropolitan Council Billing Statement

c/o Dakota County Soil and Water Conservation District 4100 220th St. West Suite 102 Farmington, MN 55024 www.dakotaswcd.org/watersheds/lowermisswmo/

	WETROPOLITAN		INVOICE Invoice No: Invoice Date: Page:		00011339 12/30/21 1 of 1	58	
Pleas Me En PC Mir Un	se Remit To: tropolitan Council vironmental Services 9 Box 856513 nneapolis MN 55485-6513 ited States		Customer Numk Payment Terms: Due Date:	oer:	716 Due 1/29	3C 9 30 dys 9/22	-
Bill T LO JO 410 Fa Un	o: WER MISSISSIPPI RIVER W E BARTEN 00 220th St W, #102 rmington MN 55024 ited States	MO-DAKOTA CO	AMOUNT DUE:		\$ 2,66	0.00 USD	
				A	mount Re	emitted	
For ac	ccount questions: metcar@me	tc.state.mn.us					Original
Line	Identifier	Description		Quantity	UOM	Unit Amt	Net Amount
1	CAMP	Citizen-Assist-Monitor-Prj		1.00	EA	2,660.00	2,660.00

Subtotal:

2,660.00

Contract: 21R004-T

Quantity of lake sites: 1 at \$760 each. 5 at \$380 each. 2021 Citizen-Assisted Monitoring Program

For questions about this bill, please contact Brian Johnson at 651-602-8743 or Brian.Johnson@metc.state.mn.us.

ANY UNPAID BALANCE OVER 30 DAYS FROM DATE OF INVOICE WILL BE SUBJECT TO A FINANCE CHARGE AT THE RATE OF 1.5% PER MONTH (18% PER YEAR)

Amount Due:

\$ 2,660.00

LMRWMO 2022 Financial Summary							Actual Revenues								
ESTIMATED REVENUES AND ASSETS	Budget	Dec 10 2020 - Jan 13 2021	Jan 14 - Feb 10 2021	Feb 11 - Mar 10 2021	Mar 12 - April 14 2021	April 15 - May 12 2021	May 13 - June 9 2021	June 10 - July 14 2021	July 15 - Aug 11 2021	Aug 12 - Sept 8 2021	Sept 9 - Oct 13 2021	Oct 14 - Dec 8 2021	Dec 9 2021 - Jan 12 2022	Total	Variance
Use of Fund Balance	\$28,896.00													\$0.00	\$28,896.00
Dues from Members	\$110,224.00			\$48,007.65	\$62,216.70									\$110,224.35	(\$0.35)
Interest	\$600.00	\$43.47	\$43.24	\$56.34	\$46.68	\$29.25	\$35.14	\$47.23	\$24.70	\$35.50	\$34.50	\$68.38	\$33.70	\$498.13	\$101.87
Other/Grant Match	\$0.00	\$300.00	\$300.00		,		T	T -		T T T T T	·		, , , , , , , , , , , , , , , , , , ,	\$600.00	(\$600.00)
LMCIT Rebate	\$500.00	\$360.00	,										\$920.00	\$1,280.00	(\$780.00)
Other Grants	\$0.00													\$0.00	\$0.00
BWSR FY16-18 CWF, FY19 WBF, FY21 WBF Grants ²	\$405.000.00			\$230,400.00		\$46.521.00	\$127.600.00							\$404.521.00	\$479.00
	. ,	I		. ,		. ,	. , .								· ·
TOTAL	\$545,220.00	\$703.47	\$343.24	\$278,463.99	\$62,263.38	\$46,550.25	\$127,635.14	\$47.23	\$24.70	\$35.50	\$34.50	\$68.38	\$953.70	\$112,602.48	
							Actual Expenses								
ESTIMATED EXPENSES AND LIABILITIES	Budget	Dec 10 2020 - Jan 13 2021	Jan 14 - Feb 10 2021	Feb 11 - Mar 10 2021	Mar 12 - April 14 2021	April 15 - May 12 2021	May 13 - June 9 2021	June 10 - July 14 2021	July 15 - Aug 11 2021	Aug 12 - Sept 8 2021	Sept 9 - Oct 13 2021	Oct 14 - Dec 8 2021	Dec 9 2021 - Jan 12 2022	Total	Remaining Budget
Engineering/Technical Assistance							I								
Technical Assistance	\$5,500.00	\$17.00		\$426.00	\$280.00	\$930.00		\$134.00	\$320.00		\$398.00	\$2,095.00	\$156.00	\$4,756.00	\$744.00
Meetings	\$6,000.00	\$725.00		\$781.00	\$675.00	\$2,946.00		\$900.00			\$675.00	\$1,875.00	\$300.00	\$8,877.00	(\$2,877.00)
Plan Reviews	\$0.00													\$0.00	\$0.00
Watershed Plan Amendment	\$40,000.00					\$5,076.50		\$1,275.00			\$920.00	\$5,200.00	\$1,845.00	\$14,316.50	\$25,683.50
Project Planning/Implementation		ΓΓ				Г				Г				1	
Plan Implementation	\$0.00													\$0.00	\$0.00
Landscaping for Clean Water Projects	\$15,000.00		\$3,750.00						\$2,226.00			\$6,750.00		\$12,726.00	\$2,274.00
Water Monitoring	\$6,500.00	\$2,730.00	\$1,200.00			\$4,600.00			\$2,800.00			\$1,520.00	\$2,660.00	\$12,850.00	(\$6,350.00)
Education		· · · · · ·													
Landscaping for Clean Water Workshops	\$6,400.00								\$4,800.00			\$1,600.00		\$6,400.00	\$0.00
MN Water Stewards Program	\$10,500.00		\$520.00	\$6,000.00		\$2,240.00			\$1,440.00			\$400.00		\$10,600.00	(\$100.00)
Storm Drain Stenciling Program	\$0.00													\$0.00	\$0.00
Storwater Signage Program	\$2,500.00													\$0.00	\$2,500.00
WMO Tabling/Event Materials	\$600.00													\$0.00	\$600.00
Host Neighbhorhood or Lake Assn. Mtgs	\$1,200.00													\$0.00	\$1,200.00
General Education Requests ³	\$8,500.00					\$120.00			\$7,740.00					\$7,860.00	\$640.00
Metro Watershed Partners Membership	\$1,000.00				\$1,000.00									\$1,000.00	\$0.00
Board Tour / Boat Tour	\$4,000.00													\$0.00	\$4,000.00
Website Maint.	\$1,700.00		\$225.00			\$320.00			\$200.00			\$600.00		\$1,345.00	\$355.00
CAC Coordination	\$1,120.00													\$0.00	\$1,120.00
Board Education	\$1,500.00													\$0.00	\$1,500.00
Administration		rr				rr	I			rr				· · · ·	
General Administration ⁴	\$35,000.00	\$2.00	\$4,012.00	\$4.00	\$2.00	\$15,370.00	\$2.00	\$4.00	\$7,150.77	\$2.00	\$2.00	\$11,107.95	\$2.00	\$37,660.72	(\$2,660.72)
Accounting Services	\$1,400.00													\$0.00	\$1,400.00
Insurance	\$2,500.00											\$2,279.00		\$2,279.00	\$221.00
Attorney and Audit	\$4,500.00	\$34.00	\$664.80	\$325.00			\$68.00	\$4,000.00			\$153.00			\$5,244.80	(\$744.80)
BWSR FY16-19 CWF & WBF Grants	\$550,000.00	\$0.00	\$203,729.78	\$270,979.37	\$0.00	\$1,364.22	\$26,222.14	\$0.00	\$189.48	\$0.00	\$0.00	\$2,122.14	\$0.00	\$504,607.13	\$45,392.87
														<u> </u>	
Subtotal Operating Costs Only	\$155,420.00	\$3,508.00	\$10,371.80	\$7,536.00	\$1,957.00	\$31,602.50	\$70.00	\$6,313.00	\$26,676.77	\$2.00	\$2,148.00	\$33,426.95	\$4,963.00	\$125,915.02	
TOTAL EXPENSES	\$860,840.00	\$3,508.00	\$214,101.58	\$278,515.37	\$1,957.00	\$32,966.72	\$26,292.14	\$6,313.00	\$26,866.25	\$2.00	\$2,148.00	\$35,549.09	\$4,963.00	\$630,522.15	
Overall Fund Balance		\$376,255.11	\$162,496.77	\$162,445.39	\$222,751.77	\$236,335.30	\$337,678.30	\$331,412.53	\$304,570.98	\$304,604.48	\$302,490.98	\$267,010.27	\$263,000.97		
		.	•					.			• • • •				
Total Clean Water Fund Grant Balance		\$212,956.51	\$9,226.73	-\$31,352.64	-\$31,352.64	\$13,804.14	\$115,182.00	\$115,182.00	\$114,992.52	\$114,992.52	\$114,992.52	\$112,870.38	\$112,870.38		
LMRWMO Operating Fund Balance		\$163,298.60	\$153,270.04	\$193,798.03	\$254,104.41	\$222,531.16	\$222,496.30	\$216,230.53	\$189,578.46	\$189,611.96	\$187,498.46	\$154,139.89	\$150,130.59		
Unencumbered Operating Fund Balance ¹		\$118,298.60	\$108,270.04	\$148,798.03	\$209,104.41	\$177,531.16	\$177,496.30	\$171,230.53	\$144,578.46	\$144,611.96	\$142,498.46	\$109,139.89	\$105,130.59		

Carryover Fund Balance from Dec. 10, 2020 \$ 379,059.64

2021 Budget Notes:

1. \$45,000 total set aside in 2021 for Watershed Management Plan

2. Budget is an estimate and will vary depending on grant project progress.

3. Includes \$7,500 for Freshwater Study funding on 8-11-21

4. Added \$5,000 to budget for Seidls Lake grant application and coordination by Administrator

LMRWMO Grants Financial Summary (20	16-2022)																
ESTIMATED REVENUES AND ASSETS	Budget	Sum: Dec 13 2018 - Dec 11 2019	Sum: Dec 13 2018 - Dec 11 2019	Dec 10 2020 - Jan 13 2021	Jan 14 - Feb 10 2021	Feb 11 - Mar 10 2021	Mar 12 - April 14 2021	April 15 - May 12 2021	May 13 - June 9 2021	June 10 - July 14 2021	July 15 - Aug 11 2021	Aug 12 - Sept 8 2021	Sept 9 - Oct 13 2021	Oct 14 - Dec 8 2021	Dec 9 2021 - Jan 12 2022	Total	Variance
	¢570.000.00					¢020.400.00			¢57,600,00							¢570,000,00	¢0.00
BWSR FY16-18 CWF Grant Payment - Thompson	\$576,000.00	¢79,400,00	¢10,600,00			\$230,400.00			\$57,600.00							\$576,000.00	\$0.00
BWSR FY 10-18 CWF Grant Payments - Alum	\$196,000.00	\$78,400.00	\$19,600.00						¢70,000,00	\ \						\$196,000.00	\$0.00
*Lake Augusta Matching Funde ¹	\$700,000.00	əzo0,000.00							\$70,000.00	/						\$700,000.00	φ0.00 ¢13.000.00
*Sunfish Lake Matching Funds	\$24,500.00															\$27,000,10	\$2,500.00
Thompson Lake Matching Funds	\$144,000,00															\$0.00	(\$144,000,00)
FY-2019 Watershed Based Funding Grant Payment	\$144 670 00	\$72 335 00														\$72,335,00	(\$72,335,00)
FY-2021 Watershed Based Funding Grant Payment	\$93.042.00	<i><i><i>ψ1</i>2,000.00</i></i>						\$46 521 00								\$46 521 00	(\$46,521,00)
	\$193.000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$64.500.10	(\$128.499.90)
TOTAL GRANT FUNDS RECEIVED	\$1,616,670.00	\$430,735.00	\$19,600.00	\$0.00	\$0.00	\$230,400.00	\$0.00	\$46,521.00	\$127,600.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,590,856.00	(\$808,335.00)
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ESTIMATED EXPENSES AND LIABILITIES	Budget	Sum: Dec 13 2018 - Dec 11 2019	Sum: Dec 12 2019 - Dec 9 2020	Dec 10 2020 - Jan 13 2021	Jan 14 - Feb 10 2021	Feb 11 - Mar 10 2021	Mar 12 - April 14 2021	April 15 - May 12 2021	May 13 - June 9 2021	June 10 - July 14 2021	July 15 - Aug 11 2021	Aug 12 - Sept 8 2021	Sept 9 - Oct 13 2021	Oct 14 - Dec 8 2021	Dec 9 2021 - Jan 12 2022	Total	Balance Remaining
Thompson Lake Stormwater Improvements (Grant C	Closed Out in 2021)																
Grant Administration	\$15,000.00	\$3,256.48	\$1,054.02		\$1,169.94											\$9,830.44	\$5,169.56
Project Development	\$15,000.00	\$5,983.64	\$2,490.12		\$415.14											\$23,051.40	(\$8,051.40)
Education and Outreach	\$18,000.00	\$18,072.64	\$730.37													\$21,178.01	(\$3,178.01)
Engineering, Design, Permitting	\$140,000.00	\$56,869.10	\$3,090.26			\$49,918.24										\$156,247.26	(\$16,247.26)
Forebay, Wetland, & Pond Install	\$344,000.00	\$72,719.65	\$71,912.11			\$187,406.13										\$332,037.89	\$11,962.11
Forebay, Wetland, & Pond Install Match	\$144,000.00	\$63,382.60				\$304,001.72										\$378,486.73	(\$234,486.73)
Water Reuse Irrigation System	\$44,000.00					\$33,655.00										\$33,655.00	\$10,345.00
Cherokee Heights Stormwater (Grant Closed Out in	2021)																
Grant Administration	\$12,000.00	\$5,014.73	\$1,927.77													\$7,462.50	\$4,537.50
Project Development	\$10,000.00	\$5,543.36	\$1,118.01													\$11,901.37	(\$1,901.37)
Rainbarrel Program	\$15,000.00	\$11,163.91														\$12,003.91	\$2,996.09
Ravine Stabilization	\$275,000.00	\$187,519.28			\$155,142.40				\$26,222.14	+						\$368,883.82	(\$93,883.82)
Ravine Stabilization Match	\$210,000.00	\$57,996.18														\$57,996.18	\$152,003.82
Ravine Stabilization Engineering, Design	\$137,000.00	\$90,323.45			\$46,964.56											\$137,288.01	(\$288.01)
Stormwater BMP Construction	\$211,000.00	\$137,011.46														\$137,011.46	\$73,988.54
Stormwater BMP Construction Match	\$170,000.00	\$117,003.82														\$117,003.82	\$52,996.18
Stormwater BMP Engineering, Design	\$40,000.00	\$25,448.93														\$25,448.93	\$14,551.07
FY 2019 Watershed Based Funding																	
Grant Administration	\$8,000.00	\$37.35	\$43.23					\$378.95						\$37.90		\$497.43	\$7,502.57
Education Program Implementation	\$36,000.00	\$914.60						\$985.27						-		\$1,899.87	\$34,100.13
Education Program Project Dev.	\$4,670.00	\$87.41	\$144.22								\$189.48			\$492.64		\$913.75	\$3,756.25
Education Program Project Dev. Match	\$4,670.00															\$0.00	\$4,670.00
Interstate Valley Creek Project Dev.	\$4,000.00	\$74.69												\$265.27		\$339.96	\$3,660.04
Interstate Valley Creek Study	\$44,000.00															\$0.00	\$44,000.00
Interstate Valley Creek Study Match	\$25,000.00															\$0.00	\$25,000.00
Lake Augusta Project Development	\$4,000.00	\$373.45	\$597.10		\$37.74									\$1,326.33		\$2,334.62	\$1,665.38
Lake Augusta Study	\$44,000.00															\$0.00	\$44,000.00
Lake Augusta Study Match	\$30,000.00															\$0.00	\$30,000.00
TOTAL GRANT EXPENSE	\$1,616,670.00	\$625,334.00	\$83,107.21	\$0.00	\$203,729.78	\$270,979.37	\$0.00	\$1,364.22	\$26,222.14	\$0.00	\$189.48	\$0.00	\$0.00	\$2,122.14	\$0.00	\$1,477,985.62	\$138,684.38
TOTAL MATCH EXPENSE	\$632,670.00	\$238,382.60	\$0.00	\$0.00	\$0.00	\$304,001.72	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$617,980.53	\$14,689.47
LMRWMO GRAN	T FUND BALANCE	\$276,463.72	\$212,956.51	\$212.956.51	\$9,226.73	-\$31,352.64	-\$31,352.64	\$13.804.14	\$115.182.00	\$115.182.00	\$114.992.52	\$114.992.52	\$114.992.52	\$112.870.38	\$112.870.38		

1. Includes \$35,000 from City, \$2,500 from Lake Augusta residents.

Note: Budget reflects most recent BWSR work plan, not original work plan

Note: Revenue and expenditures from 2016, 2017, 2018, and 2019 are shown but have been aggregated

Represents an overpayment by BWSR to LMRWMO, immediately reimbursed back to state.



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Memorandum

To: Lower Mississippi River Watershed Management Organization Board of Managers
 From: Greg Williams and Joe Barten
 Subject: LMRWMO Plan Update – Review draft LMRWMO Goals, Strategies and Policies and LMRWMO Performance Standards
 Date: November 29, 2021
 Project: 23191436.00

The Lower Mississippi River Watershed Management Organization (LMRWMO) Plan identifies goals, strategies, and policies in Section 5 of its 2011 Watershed Management Plan. Goals, strategies, and policies are briefly defined in the Plan as:

Goals: Desired outcomes to help achieve the vision of the LMRWMO and the purposes of this plan.

Strategies: Activities the LMRWMO will undertake to help achieve their goals.

Policies: Standards that have been developed that require specific action of the member cities to help achieve the goals of the LMRWMO.

Among the Plan policies are **performance standards** (i.e., quantitative criteria that member cities must meet and/or require developers to meet when implementing projects). As part of the fourth generation Plan update, the Board of Managers will review and revise (as needed) the goals, strategies, policies, and performance standards. Ahead of the October 13, 2021 Board of Managers meeting, Barr Engineering Co. (Barr) reviewed the existing strategies and policies in the Plan and identified them according to the following system:

Green highlight: recommended including in the Plan with minimal update/modification Yellow highlight: recommend including in the Plan with moderate/significant update Gray highlight: recommend omitting from the Plan (or moving to new Plan section)

Following discussion at the October 13, 2021 meeting, Barr revised the existing goals, strategies, and policies with consideration for the gaps analysis completed in Fall 2020, the outcomes of citizen advisory committee (CAC) and technical advisory committee (TAC) meetings, and other engagement activities and Board discussion performed to date. The revised goals, strategies, and actions are provided in the attached document and shown in tracked changes. Red text indicates additional notes for consideration in reviewing the changes.

To:	Lower Mississippi River Watershed Management Organization Board of Managers
From:	Greg Williams and Joe Barten
Subject:	LMRWMO Plan Update – Review draft LMRWMO Goals, Strategies and Policies and LMRWMO Performance
	Standards
Date:	November 29, 2021
Page:	2

The goals, strategies, and policies are currently organized into eight topic areas (see below); discussion of these topis at the December 8, 2021 and January 12, 2021 LMRWMO meetings is planned as follows:

- Water Quantity
- Water Quality
- Recreation, fish and wildlife habitat

Public participation and education

- Wetlands
- Groundwater
- Erosion and sediment control

January 12, 2022 Meeting

December 8, 2021 Meeting

• Administration

Barr has also prepared a table summarizing performance standards (see attached). The table compares the existing LMRWMO performance standards to the Minnesota Pollution Control Agency's (MPCA's) Construction Stormwater General Permit and member city performance standards. The table also includes draft proposed LMRWMO performance standards presented with two levels of "intensity." In the current regulatory framework between the LMRWMO and its member cities, performance standards are implemented through Plan policies. Thus, it is appropriate to review performance standards concurrent with policies.

Requested Manager Action:

Review the proposed revisions to the goals, strategies, and policies for the topic areas planned for discussion at the December 8, 2021 meeting, as well as the relevant performance standards, and provide feedback/discussion at the December 8, 2021 meeting.

<mark>Green</mark> = remain with minimal update Yellow = recommend updating

Gray = recommend omitting/deleting Red text = notes regarding revision/omission

5.2 Water Quantity (for discussion at December 8, 2021 LMRWMO Meeting)

The WMO recognizes the importance of minimizing effects of development and redevelopment to reduce existing and avoid future water resource problems. The following goals and policies have been developed to address volume control, rate control, flooding, and other water quantity related issues.

5.2.1 WMO Goals

A. Reduce stormwater runoff volumes by increasing infiltration and ground water recharge.

<u>Promote infiltration and reuse to reduce stormwater runoff volumes through the support of XX partner</u> <u>education workshops (e.g., landscaping for clean water) and support of XX master water stewards.</u>

B. Reduce existing flood occurrences and minimize future flood potential throughout the WMO.

Reduce the number and/or flood risk of habitable structures within local floodplain areas in cooperation with member cities.

Revised goal attempts to add means of quantification and shift focus from minimize the flooding (largely driven by climate) to minimizing the impact.

5.2.2 WMO Strategies

A. The WMO will establish stormwater volume reduction requirements taking into consideration variable development and redevelopment conditions. This may include establishing LID policies to provide increased volume control for development and redevelopment projects. (Goal 5.2.1 A, Goal 5.2.1 B) Suggest the deletion of this strategy concurrent with the addition of a new policy requiring member cities to implement a volume control standard (currently implemented by all cities by Lilydale). Suggest that the performance standard allow variation between cities, but require volume retention similar to/based on MIDS and NPDES construction stormwater permit.

B. The WMO will continue to use the previously established intercommunity "design flows" (stormwater flow rates that the stormwater management system is expected to convey with fully developed conditions in the watershed) as the design parameters for downstream improvements.

The WMO will continue to use fully developed conditions to establish intercommunity flow rates considered in the design and/or evaluation of stormwater improvements.

The WMO will also continue to use the previously established "allowable flows" (stormwater flow rate that an upstream community can discharge to a downstream community without incurring financial obligation for the stormwater system in the downstream community) as the basis for determining the financial obligation of member cities for intercommunity flooding and erosion control projects. Refer to **Appendix B** for the joint powers agreement and memoranda regarding established intercommunity design flow (allowable flow). (General Water Quantity)

The WMO will also continue the "allowable flow" methodology (i.e., an upstream community may discharge a calculated rate/volume to a downstream community without incurring financial obligation for the downstream stormwater system) as the basis for determining the financial obligation of member

Green = remain with minimal update Yellow = recommend updating Gray = recommend omitting/deleting Red text = notes regarding revision/omission

cities for intercommunity flooding and erosion control projects (as describe in the Joint Powers Agreement, see Appendix B).

C. The WMO will coordinate intercommunity stormwater runoff design and planning with the member communities by:

- Reviewing the member cities' local watershed management plans for consistency with WMO goals and consistency with intercommunity planning.
- Calculating the cost apportionment allocation between cities for water resources projects with intercommunity participation. (General Water Quantity)
- <u>Reviewing individual projects for consistency with applicable standards at the request of</u> <u>member cities.</u>

D. The WMO will consider practicable solutions when involved with intercommunity water resources planning activities.

- All drainage studies or feasibility studies (whether by the WMO or a city) for projects in a subwatershed with intercommunity drainage, shall consider the impact of the project and the total intercommunity project cost.
- Any projects with intercommunity drainage issues shall not be implemented without prior completion of a feasibility study outlining improvement options and adoption of a preferred option by the WMO, except in emergencies. (General Water Quantity) Consider omitting as strategy and noting process in the Implementation section, or revising as noted below.

The WMO will continue to perform or require feasibility studies for projects impacting intercommunity drainage. Feasibility studies shall consider hydrologic and hydraulic impacts and intercommunity costs (if applicable). Studies performed by cities shall be provided to the WMO for review and comment prior to project implementation.

E. The WMO will promote the use of infiltration, stormwater reuse, and other low impact development (LID) practices through support of the partner cost share programs (e.g., Dakota SWCD Landscaping for Clean Water), support of Master Water Stewards, and coordination education and outreach activities with member cities.

5.2.3 WMO Policies

 A. Member cities are to reduce the amount of impervious surfaces through the use of Low Impact Development (LID) techniques to the greatest extent reasonable for new development and redevelopment projects, taking into consideration land use, zoning, topography, previous site uses, and site constraints. LID techniques may include, but are not limited to, those presented on the MPCA-Low Impact Development website, http://www.pca.state.mn.us/water/stormwater/stormwaterlid.html.
 (Goal 5.2.1 A, Goal 5.2.1 B) Consider revising to describe LMRWMO's role in promoting and encouraging LID (and moving to strategy above since it is focused on WMO role, not City role).

B. Member cities will not be allowed to use infiltration as a stormwater BMP in areas where there are known contaminants or in drinking water supply management areas/wellhead protection areas. In

Green = remain with minimal update Yellow = recommend updating Gray = recommend omitting/deleting Red text = notes regarding revision/omission

addition, infiltration will not be encouraged where the soils are not suitable for infiltration or in areas where there is less than three feet of separation between the bottom of the infiltration system and the groundwater or bedrock. In-situ field tests shall be required to verify the infiltration rates of on-site soils prior to the construction of infiltration BMPs. (Goal 5.2.1 A, Goal 5.6.1 A) existing infiltration guidance (see below).

Member cities shall maintain and enforce volume control/abstraction performance standards (where appropriate) based on or similar to the MPCA's Minimal Impact Design Standards (MIDS) or National Pollutant Discharge Elimination System (NDPES) Construction Stormwater General Permit. Member cities shall restrict or prohibit infiltration when site conditions warrant consistent with the guidance provided in the General Construction Stormwater Permit and MPCA's MS4 Stormwater General Permit.

The "where appropriate" added specifically due to limitations for infiltration in Lilydale.

Member cities shall require that infiltration/abstraction best management practices be designed consistent with guidance provided in the Minnesota Stormwater Manual and applicable City stormwater design guidance documents.

C. Member cities are to provide pretreatment of stormwater prior to discharge to any new infiltration system to protect the functionality of the system. Pretreatment shall collect sediment, skim floatables, and be easily accessed for inspection and maintenance. (Goal 5.2.1 A, Goal 5.6.1 A) Consider omitting as required per design guidance for infiltration systems.

D. The level of protection along all trunk conveyors, streams, and channels and around all wetlands, ponds, detention basins, and lakes shall be based on the critical duration 100-year event, which shall be defined as the 100-year, 24-hour rainfall or the 100-year, 10-day runoff event; whichever is greater. (Goal 5.2.1 B) Consider revising or omitting this as it may not be achievable based on precipitation trends (i.e., systems originally meeting this may no longer meet this standard).

E. Design of new trunk stormwater systems should provide discharge capacity for the critical-duration runoff event that is not less than a 10-year frequency event. For open channel conveyance construction, the design criteria shall be for the critical 100-year event. Variances to this standard may apply in areas where in-place storm sewers are designed for a 5-year frequency event. (Goal 5.2.1 B) Consider omitting storm sewer design criteria as member cities already design around this to the extent possible.

F. Design of new non-trunk stormwater systems should provide discharge capacity for the criticalduration runoff event that is not less than a 5-year frequency event, preferably a 10-year frequency event (level of service). Where the planned level of service would cause hardship in operation of a downstream system, the owner may design for a lesser level of service if the following circumstances are present:

- The proposed new or replacement system will not have a longer life than that of the existing downstream system.
- It is not practical to incorporate temporary measures into the new system to mitigate the effects of the new system on the downstream system. (Goal 5.2.1 B) Consider omitting storm sewer design criteria as member cities already design around this to the extent possible.

Green = remain with minimal update Yellow = recommend updating Gray = recommend omitting/deleting Red text = notes regarding revision/omission

G. Member cities are to ensure that proposed development, redevelopment, and/or infrastructure projects will not exceed the capacity of the existing downstream stormwater drainage system. (Goal 5.2.1 B) Consider revising to reflect LMRWMO's interest in potential scenarios – member cities already require rate control. Is LMRWMO concerned about potential variances?

Member cities shall inform the WMO of proposed projects that are expected to increase peak intercommunity flow rates or exceed the capacity of downstream drainage systems.

H. Member cities are to incorporate emergency overflow structures (e.g., swales, spillways), where feasible, into pond outlet structure designs to prevent undesired flooding resulting from storms larger than the 100-year (one percent) event or plugged outlet conditions. (Goal 5.2.1 B) City design standards already require this.

I. Member cities are to maintain ordinances or policies that allow the cities to secure easements over floodplains, detention areas, wetlands, ditches, and all other parts of the stormwater system as areas develop or redevelop. (Goal 5.2.1 B)

J. Member cities are to incorporate multi-stage outlets into their pond designs to control flows from smaller, less frequent storms and help maintain base flows in downstream open channels, where practicable. (Goal 5.2.1 B)

K. Member cities are to maintain ordinances or policies that setshall require minimum building elevations (including basement) at least one foot above the critical 100-year flood elevation for structures adjacent to inundation areas. The cities should consider the effects of events larger than the 100-year flood when setting minimum building elevations. Member cities are encouraged to require Higher higher minimum building elevations should be considered for structures adjacent to ponding areas with large tributary watersheds and for structures adjacent to landlocked basins. (Goal 5.2.1 B) Consider potential revisions to minimum building elevations.

L. The WMO establishes the following policies regarding landlocked basins:

- The flood levels established in local (city) watershed management plans shall take into consideration the effects of water level fluctuations on trees, vegetation, erosion and property values. Steeply sloped shorelines that are subject to slope failure and shoreline damage should not be in contact with flood water for extended periods of time. (Goal 5.2.1 B)
 Member cities shall consider potential impacts to vegetation, erosion, water quality and public safety when designing, evaluating, and implementing strategies to manage water levels in landlocked basins.
- Only the existing tributary area may discharge to a landlocked basin, unless provision has been made for an outlet from the basin, or hydrologic analysis has been completed showing additional discharge to basin is acceptable. The form of outlet may range from temporary pumps to gravity storm sewers. The outlet is to be in place before increased water levels are likely to affect vegetation, slope stability and adjacent properties. (Goal 5.2.1 B)
 Member cities shall prohibit increases in tributary drainage area to landlocked basins unless improvements (e.g., outlet) are implemented to prevent increased flood risk (or analysis demonstrates no increased flood risk)

Green = remain with minimal update Yellow = recommend updating

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 If outlets from landlocked basins are needed, member cities are encouraged, where practicable, to keep outflow rates low enough to allow for as much infiltration as possible. Drawdown time to within one foot of the normal water level should not exceed 48 hours to reduce damage to upland vegetation. (Goal 5.2.1 B)

Suggest omitting this policy due to the unique circumstances of each landlocked basin, adjacent structure elevations, and relationship with local water table. This is generally covered by the first bulleted item above.

 When member cities establish high water elevations and whether outlets are needed for landlocked basins, member cities are encouraged, where practicable, to account for long duration events, such as multiple-year wet cycles and high runoff volume events (e.g., snowmelt events that last for many weeks). (Goal 5.2.1 B)

Member cities are encouraged to consider long-duration precipitation and snowmelt events, prolonged periods of wet and dry conditions, and precipitation events larger than the 100-year event in evaluating and managing flood risk.

Consider moving this outside of the "landlocked basin" category as it applies more broadly.

 Member cities need to consider both the water quality and flooding impacts of proposed outlets from landlocked basins on downstream water resources. (Goal 5.2.1 B) Consider omitting as this is covered by including water quality in the first landlocked basin bullet above.

M. Member cities are to require developers to provide Runoff Control Plans prepared by a licensed professional engineer for projects that disturb one or more acres of land. The Runoff Control Plan shall incorporate best management practices (BMPs) and shall conform to approved local water management plans.

Runoff Control Plans shall include the following:

- a. Property lines and delineation of lands under ownership of the project proposer.
- b. Delineation of the subwatersheds contributing runoff from off-site, and proposed and existing subwatersheds on-site.
- c. Location, alignment and elevation of proposed and existing stormwater facilities.
- d. Delineation of existing on-site wetlands, shoreland and/or floodplain areas. Removal or disturbance of streambank and shoreland vegetation should be avoided. The plan shall address how unavoidable disturbances to this vegetation will be mitigated.
- e. Existing and proposed normal, 5-year (or 10-year) and 100-year water elevations on-site.
- f. Existing and proposed site contour elevations related to the North American Vertical Datum (NAVD) of 1988.
- g. Construction plans and specifications of all proposed stormwater management facilities.
- h. Stormwater runoff volume and rate analyses for existing and proposed conditions.
- i. All hydrologic and hydraulic computations completed to design the proposed stormwater quantity and quality management facilities.
- j. Provision of outlots or easements for maintenance access to detention basins, constructed wetlands and other stormwater management facilities.
- Maintenance agreement between developer and city which addresses sweeping, pond inspection, sediment removal and disposal, etc.
- I. Documentation indicating conformance with the city's existing local water management plan.

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m. Inlets to detention basins, wetlands, etc. shown at or below the normal water level.

n. Identification of receiving water body.

Consider omitting as this is required by each city's MS4 permit and including this level of detail is redundant.

Runoff Control Plans shall meet the following criteria:

 The peak rate of stormwater runoff from the developed subwatershed of the site shall not exceed the existing peak rate of runoff for the 5-year (or 10-year) and the 100-year return frequency critical duration storm events (encouraged to maintain the runoff rate for the 2-year storm event as well). For the purposes of this criteria, "subwatershed" may be the project site, or may be an area of greater size for which an approved local water management plan meets this criteria (e.g., regional detention basins).

<u>Member cities shall require that projects triggering a City stormwater management plan shall</u> <u>not increase peak stormwater runoff rate leaving the site for the 2-year, 10-year, and 100-year</u> storm event.

2-, 10-, and 100- year events are used by all cities except St. Paul, which has a different runoff rate standard (1.64 cfs per acre).

- A hydrograph method based on sound hydrologic theory shall be used to analyze stormwater runoff for the design or analysis of flows in conveyors, streams, and channels and flows to ponds and wetlands. Consider omitting as redundant to city practice
- Reservoir routing procedures and critical duration 100-year runoff events shall be used for design of detention basins and outlets. (Goal 5.2.1 B) Consider omitting as redundant to city practice

5.3 Water Quality (for discussion at December 8, 2021 LMRWMO Meeting)

There are many water bodies throughout the WMO that are valuable resources to the people of the area. The following goals and policies have been developed to maintain or improve water quality in surface waters throughout the WMO.

5.3.1 WMO Goals

A. Evaluate and track water quality trends within the WMO.

Monitor and assess water quality trends in LMRWMO Level 1 and 2 priority waterbodies

Consider moving to strategies?

B. Improve intergovernmental coordination regarding water quality management within the WMO. Consider omitting unless there are specific actions/objectives.

C. Improve water quality within the WMO.

<u>Reduce sediment and phosphorus loading to the Mississippi River through the implementation of XX</u> <u>ravine improvement projects</u> (include mass reduction, if it can be estimated) Consider including here or in a separate erosion/sedimentation section.

Green = remain with minimal update Yellow = recommend updating Gray = recommend omitting/deleting Red text = notes regarding revision/omission

Maintain or improve water quality in non-impaired LMRWMO priority waterbodies (reference a table of existing water quality/target water quality standards if no data)

Improve water quality in nutrient impaired Lake Augusta and Thompson Lake towards achieving applicable state water quality standards.

Reduce bacteria loading to Interstate Valley Creek through landowner education, outreach, and member city support.

Work with member cities to implement practices to reduce chloride use in the watershed.

5.3.2 WMO Strategies

A. The WMO will assist member cities in creating an equitable and cost-effective method to address the requirements of the South Metro Mississippi TMDL study and implementation plan and other TMDLs as they are completed. (Goal 5.3.1 B) – Suggest revising to assisting member cities, as feasible, in WQ projects that contribute to TMDL load reductions.

Assist member cities in designing and implementing water quality improvement projects to address pollutant load reductions identified in current and future Total Maximum Daily Load (TMDL) studies.

B. The WMO will continue to focus on the water quality of intercommunity water bodies. The WMO, at the discretion of the Board, may also work with individual member cities to address water quality issues within individual city boundaries. (Goal 5.3.1 C) – replace with waterbody priority

The WMO will work with member cities to maintain or improve the water quality of LMRWMO priority waterbodies through technical assistance, project cost-share, public/landowner education and outreach, and other means appropriate the waterbody priority and water quality issues.

The WMO will collaborate with member cities and other partners to implement training and outreach designed to reduce chloride use in the watershed, targeting municipal and private users.

C. The WMO will investigate the possibility of coordinating joint member contracts for maintenance to achieve economies of scale. Post construction stormwater management and good housekeeping practices for MS4 stormwater facilities shall comply with MPCA/MS4 requirements. (Goal 5.3.1 B) – Implementation activity, if continued.

D. The WMO will monitor DNR protected water bodies. Prioritization of water bodies for monitoring will be determined annually and by the WMO budget. Monitoring data from CAMP (Citizen Assisted Monitoring Program), WHEP (Wetland Health Evaluation Program), and CSMP (Citizen Stream Monitoring Program) should be taken into consideration so monitoring information is not being duplicated. (Goal 5.3.1 A) – revise to reflect monitoring of priority waterbodies

The WMO will monitor (or fund member city/partner monitoring) of WMO priority level 1 and 2 lakes and streams through the Citizen Assisted Monitoring Program (CAMP) or similar programs. The WMO will work with member cities to recruit and leverage volunteers, where possible. The WMO will defer monitoring of the Mississippi River to state and regional partners.

Green = remain with minimal update Yellow = recommend updating Gray = recommend omitting/deleting Red text = notes regarding revision/omission

The WMO will use available monitoring data to assess water quality trends in WMO priority waterbodies.

E. The WMO will monitor select storm sewers and streams that outlet to the Mississippi River.
 Prioritization of storm sewers and streams will be determined annually and by the WMO budget.
 Monitoring parameters should be consistent with downstream impairments and may be modified at the discretion of the Board. Possible parameters include: Total Phosphorus, PCBs (Polychlorinated biphenyls), PFOS (Perfluorooctane sulfonate), Fecal Coliform, Turbidity, and Dissolved Oxygen. (Goal 5.3.1 A) – Consider as implementation? Combine with other monitoring strategy?

F. The WMO shall attempt to develop a water quality cost allocation formula for intercommunity projects by the year 2015. In the interim, the WMO will address each project individually. (Goal 5.3.1 B)
 – Done, will use it.

The WMO will use the "allowable load" water quality cost allocation methodology to allocate intercommunity water quality project costs among affected member cities, as needed (add reference to methodology as appendix?)

G. The WMO requires MnDOT, Ramsey County, Dakota County, and other governmental agencies to meet the water quality treatment requirements outlined in this plan for runoff leaving their right-of-way, facilities, or easements. Regular maintenance of their stormwater facilities shall also be performed. (Goal 5.3.1 B)

H. The WMO will recruit volunteers, through the use of its CAC, and encourage member cities to recruit volunteers to participate in the WMO's monitoring activities. Where necessary, volunteers would be provided training on MPCA-accepted protocol to ensure that the data is acceptable for the MCPA EQUIS Database. (Goal 5.3.1 A) - combined with general monitoring strategy above.

I. The WMO will use a similar water body classification system to that of the MPCA. – address in policy with standards/classifications

The WMO will maintain a list of priority waterbodies classified according to water quality issues, recreational and ecological value, intercommunity location, and other factors. The WMO will consider waterbody priority level when designing and executing the WMO implementation schedule (see Section X) and in annual work planning.

Table 5-1 will be used to help classify water bodies as deep lakes, shallow lakes, wetlands, and ponds. The pond column has been added to the MPCA's table by the WMO to provide a classification for water bodies that may be considered ponds. The classification system determines whether a water body should be managed as a deep lake, shallow lake, wetland, or pond. For water bodies classified as wetlands, member cities must use a wetland management classification system that considers the susceptibility of the wetlands to degradation by stormwater. The WMO requires the member cities use a wetland classification system that ranks the wetlands and sets wetland management standards based on the rank and desired level of protection. (Goal 5.3.1 A, Goal 5.3.1 C)

Table 5-1: Factors Used to Classify Deep Lakes, Shallow Lakes, Wetlands, and Ponds

Factor	Deep Lakes	Shallow Lakes	Wetlands	Ponds

Green = remain with minimal update Yellow = recommend updating Gray = recommend omitting/deleting Red text = notes regarding revision/omission

Public Waters Inventory Code	Typically coded as "L or LP" in PWI	May be coded as either "L, LP or LW"	Typically coded as "LW" in PWI	May be coded as either "L, LP or LW"
Donth may	Tunically > 15 fact	IN PWI	Turically <7 fact	IN PWI
Littoral area	Typically > 15 leet	Typically < 15 leet	Typically 100%	Typically 100%
Aroa (min.)	1 ypically < 80%	> 10 acros (Bullatin	No minimum	No minimum
Area (mm.)	25)	25)	Nomininum	
Thermal	Stratification	Typically do not	Typically do not	Typically do not
stratification	common but	stratify	stratify	Stratify
(summer)	dependent upon depth			
Fetch	Significant fetch	Fetch is variable	Rarely has a	Rarely has a
	depending on size &	depending on size &	significant fetch	significant fetch
	shape	shape		
Substrate	Consolidated	Consolidated to	Mucky to	Variable
	sand/silt/gravel	mucky	unconsolidated	
Shoreline features	Generally wave	Generally wave	Generally	Generally
	formed, often sand,	formed, often sand,	dominated by	dominated
	gravel or rock	gravel or rock	emergents	by emergents
Emergent	Shoreline may have	Emergents	Emergents often	Emergents
vegetation &	ring of emergents.	common may	dominate much of	common may
relative amount of	vast majority of	cover much of	basin: often	cover much of
open water	basin open water	fringe of lake: basin	minimal open water	fringe of pond:
open nate.		often has high		basin often has high
		percentage of open		percentage of open
		water		water
Submergent	Common in littoral	Abundant in clear	Common unless	Common unless
vegetation	fringe, extent	lakes; however may	dominated by an	dominated by an
	dependent on	be lacking in algal	emergent like	emergent like
	transparency	dominated	cattail	cattail
		turbid lakes		
Dissolved Oxygen	Aerobic epilimnion;	Aerobic epilimnion	Diurnal flux &	Variable
	nypolimnion often	but wide diurnal	anaerobic	
	midsummor	nux	conditions common	
	musummer	possible		
Fishery	Typically managed	May or may not be	Typically not	Not managed for a
/	for a sport/game	managed for a sport	managed for a sport	sport fishery
	fishery. May be	fishery. If so, fishery	fishery. Little or no	. ,
	stocked. DNR	assessment should	DNR fishery	
	fishery assessments	be available. Winter	information.	
	typically available	aeration often used	Seldom aerated.	
		to minimize	May be managed to	
		winterkill potential	remove fish &	
			promote waterfowl	
Uses	Uses Wide range of	Boating, fishing,	Waterfowl &	Typically manmade
	uses including	waterfowl	wildlife production,	basins. Important
	boating, swimming,	production,	hunting, aesthetics.	for flood protection
	skiing, fishing; boat	hunting, aesthetics;	Unimproved boat	

Green = remain with minimal update Yellow = recommend updating Gray = recommend omitting/deleting Red text = notes regarding revision/omission

		ramps & beaches common	limited swimming; may have boat ramp, beaches uncommon	ramp if any. No beaches	and runoff pollutant removal	
I	Note: This table was	s developed by the M	IPCA and is located in	the Guidance Manu	al for Assessing the	
	Quality of Minnesota Surface Waters. The "Ponds" column was added by the WMO for the purposes					
	of this Plan. It is important to note that the MPCA does not have a pond classification.					

Table 5-2 shows the WMO's water quality goals based on classification.

Table 5-2. Water (Juality Goals	for Classified	Water Bodies	in the WMC
Table 5-2. Water C	Luanity Guais	IUI Classifieu	vale Doules	

Classification	TP (ppb)	Chl-a (ppb)	Secchi (meters)
Deep Lakes	≤ 40	≤ 14	≥ 1.4
Shallow Lakes	≤ 60	≤ 20	≥ 1.0
Wetlands	NA	NA	NA
Ponds	NA	NA	NA

Note: The water quality goals shown in this table are consistent with the goals shown in the MPCA's *Guidance Manual for Assessing the Quality of Minnesota Surface Waters.*

5.3.3 WMO Policies

A. Member cities shall require a 50% total phosphorus removal from runoff leaving new development and redevelopment projects that exceed one acre of land disturbance (for this policy, mill and overlay and pavement rehabilitation projects are not considered land disturbance). For areas that discharge directly to the Mississippi River or to an impaired water body for which a TMDL has been completed, the findings of the TMDL may replace this requirement (whether more or less stringent).

The required reduction of total phosphorus may be accomplished through the use of regional or on-site stormwater BMPs such as: ponds, NURP (National Urban Runoff Program) basins, infiltration basins, biofiltration, vegetated swales, mechanical devices, porous pavements, or any other techniques effective at phosphorus reduction. (Goal 5.3.1 C) – Not consistent with cities. Consider something more closely aligned with MCPA, MIDS, or City standards.

Member cities shall require non-linear development and redevelopment projects disturbing one acre or more to provide permanent stormwater treatment to achieve:

At least 50% reduction in total phosphorus from runoff

<u>OR</u>

Infiltration/retention of at least 1.0 inches of runoff from new or redeveloped impervious area

The above requirements may be achieved via on-site BMPs and/or regional stormwater treatment, consistent with the local requirements of each member city.

Green = remain with minimal update Yellow = recommend updating Gray = recommend omitting/deleting Red text = notes regarding revision/omission

B. Linear construction projects should meet policy 5.3.3A where possible and feasible. Linear projects will be required to meet NPDES Construction Permit requirements. (Goal 5.3.1 C) Suggest addressing in above policy via a design flow sequence

<u>Member cities shall require linear projects disturbing more than one acre to provide permanent</u> <u>stormwater treatment for consistent with member city performance standards and NPDES Construction</u> <u>Stormwater Permit requirements, as applicable.</u>

Consider policy for priority "overlay zones":

For projects located in pollutant loading priority areas (TBD), member cities are encouraged to implement more stringent stormwater treatment performance standards and/or engage developers in private/public partnerships to achieve water quality treatment above and beyond minimum required performance standards.

C. For stormwater discharge points/outfalls that did not exist prior to the adoption of this plan: member cities are to provide pretreatment of stormwater prior to its discharge to wetlands and other water resources. Pretreatment shall collect sediment, skim floatables, and be easily accessed for inspection and maintenance. (General Water Quality) believe this is required by MS4

D. For replacement discharge points/outfalls or existing stormwater discharge points/outfalls: the WMO encourages member cities to provide pretreatment of stormwater prior to its discharge to wetlands and water resources. (General Water Quality) suggest replacing with broader redevelopment policy

Member cities are encouraged to identify and pursue opportunities for stormwater quantity and stormwater quality improvement retrofits during reconstruction of existing City infrastructure.

5.4 Recreation, Fish and Wildlife Habitat (for discussion at December 8, 2021 LMRWMO Meeting)

The WMO has many natural areas that are popular recreation sites and provide excellent fish and wildlife habitat. The following goals and policies have been developed to enhance water based recreational opportunities and protect and improve fish and wildlife habitat. In addition, many of the other goals, strategies, and policies outlined throughout **Section 5** will result in improved recreational opportunities and fish and wildlife habitat.

5.4.1 WMO Goals

A. Protect and enhance fish and wildlife habitat and recreation opportunities and maintain shoreland integrity. Suggest reorganizing statement to emphasize the actions/strategy of the WMO to benefit wildlife and recreation (i.e., habitat/recreational benefits are likely secondary to primary objectives of WMO actions).

Maintain and improve water quality and shoreline integrity to promote fish and wildlife habitat and recreational opportunities.

Green = remain with minimal update Yellow = recommend updating Gray = recommend omitting/deleting Red text = notes regarding revision/omission

Promote the incorporation of habitat benefits into stormwater BMPs via support of partner cost-share programs (e.g., Dakota SWCD Landscaping for Clean Water) and technical assistance for/review of partner projects.

Prevent the increase or minimize the occurrence of aquatic invasive species in collaboration with member cities. What strategies or actions to support?

5.4.2 WMO Strategies

A. The WMO will promote and encourage protection of non-disturbed natural shoreland areas and restoration of disturbed shorelines and streambanks to their natural state through participation in Blue Thumb or other educational programs. (Goal 5.4.1 A) revise to update programs? Will efforts be limited or prioritized based on waterbody priority?

The WMO will support partner cost-share programs to implement shoreline protection, shoreline restoration, and upland restoration projects (e.g., Dakota SWCD Landscaping for Clean water or similar programs)

B. The WMO supports water quality improvements in order to maintain or improve water quality and the habitat consistent with intended use and classifications of lakes, streams, wetlands, and ponds. (Goal 5.4.1 A, Goal 5.5.1 A) revise to clarify what type of support, when?

The WMO will work with member cities and partners to identify and pursue opportunities to incorporate habitat and/or recreations benefits into WMO and member city projects, as requested.

The WMO will support engagement and outreach efforts to promote habitat improvement via support of Master Water Stewards and education and outreach in collaboration with member city and partner environmental services staff.

The WMO will work with member Cities to identify shoreline degradation issues and prioritize opportunities for shoreline restoration and protection actions.

C. The WMO will encourage the appropriate development of access to water bodies for recreation and education. (Goal 5.4.1 A) revise or cut depending on how WMO wants to support access/recreation? Specific roles?

5.4.3 WMO Policies

A. The WMO requires member cities to consider landscape designs for projects located in close proximity to natural areas or greenways to:

 increase beneficial habitat, wildlife and recreational uses; promote infiltration and vegetative water use; and

 decrease detrimental wildlife uses (such as beaver dams, goose overabundance) that damage water control facilities, shoreline vegetation, water quality or recreational facilities. (Goal 5.4.1 A, Goal 5.5.1 A)

Member cities shall consider and pursue, as feasible, opportunities to incorporate habitat, wildlife, and other ecological benefits during reconstruction of City infrastructure.

Green = remain with minimal update Yellow = recommend updating Gray = recommend omitting/deleting Red text = notes regarding revision/omission

Member cities are encouraged to required proposers of projects disturbing more than one acre of land to meet with City environmental staff to evaluate opportunities to incorporate, maximize, or preserve habitat and ecological benefits as part of project development.

B. The WMO requires member cities to prioritize shoreland areas for restoration. Shoreland areas include streambanks and lakeshore areas. The cities will be required to address this issue in their local watershed management plans. (Goal 5.4.1 A) – move to strategy to work with cities?

Member cities shall identify and keep record of priority shoreline degradation issues within their jurisdiction.

C. Member cities are required to maintain a shoreland ordinance that is, at a minimum, in conformance with the requirements of the Minnesota DNR. (Goal 5.4.1 A)

<u>Member cities shall maintain and enforce shoreland development standards that are at least as</u> <u>stringent as the requirements of the Minnesota DNR and included in Minnesota Rules 6120.</u>

D. The WMO requires member cities within the Mississippi River Critical Corridor Area/Mississippi National River Recreation Area (MRCCA/MNRRA) to conform to the current rules for areas within the MRCCA/MNRRA. (Goal 5.4.1 A)

<u>Member cities are required to maintain and enforce local land use controls within the Minnesota River</u> <u>Critical Corridor Area consistent with Minnesota Rules 6106.</u>

5.5 Wetlands (for discussion at December 8, 2021 LMRWMO Meeting)

There are many wetlands located throughout the WMO that provide wildlife habitat and offer a natural method of conveying and storing stormwater. The following goals and policies have been developed to manage existing wetlands and restore drained wetlands where possible.

5.5.1 WMO Goals

A. Enhance or protect wetlands from the adverse impacts of development and redevelopment.

Pursue no net loss of wetlands due to human activity via support of member city roles as local governmental units (LGUs) responsible for wetland management.

5.5.2 WMO Strategies

A. The WMO will continue to support member city management efforts to improve wildlife habitat, aesthetic enjoyment, and other public uses of wetlands adjacent to parks. (Goal 5.5.1 A, Goal 5.4.1 A) Should clarify what types of support the WMO offers. What will LMRWMO do vs Cities?

The WMO will support member city roles as LGU for administration of the Wetland Conservation Act (WCA) via technical assistance and participation in technical evaluation panels (TEPs), as requested.

The WMO will collaborate with partner to develop and distribute educational information regarding the protection and preservation of wetlands by property owners.

Green = remain with minimal update Yellow = recommend updating Gray = recommend omitting/deleting Red text = notes regarding revision/omission

B. The WMO will continue in the support of wetlands for inclusion in Wetland Health Evaluation Program (WHEP).(Goal 5.5.1 A) Suggest omitting unless the WMO is funding this monitoring.

5.5.3 WMO Policies

A. Member cities are the<u>shall continue to serve as</u> local governmental units (LGUs) responsible for administering the Wetland Conservation Act (WCA). MnDOT is the LGU for the WCA on its rights-of-way. (Goal 5.5.1 A)

B. An average 15 foot buffer of natural vegetation above the 100-year High Water Level (if established) or wetted boundary is required by the WMO around lakes, streams, and wetlands, upon new or redevelopment projects that exceed one acre in land disturbance (for this policy, mill and overlay and pavement rehabilitation projects are not considered land disturbance). (Goal 5.5.1 A, Goal 5.4.1 A) Many member cities have more stringent buffer standards. Suggest revising to reflect more stringent buffer standards, or at minimum delegate buffer limits to cities based on MnRAM (or similar) classification but no less than XX feet.

Member cities shall maintain and enforce wetland buffer requirements for development and redevelopment projects disturbing one acre or more. Vegetated wetland buffer distances shall be based on MnRAM wetland classification (or similar methodology) and shall be an average of at least XX feet.

Member cities shall maintain and enforce stream and lake buffer requirements for development and redevelopment projects disturbing one acre or more. Vegetated buffers adjacent to streams and lakes shall be an average of at least XX feet.

C. Member cities are toshall inventory, classify and determine the functions and values of wetlands, either through a comprehensive wetland management plan or through the review of for development or and redevelopment projects that exceed disturb one acre or more. For cities facing significant development or redevelopment, the WMO recommends that they complete comprehensive wetland management plans. The cities could complete the plans in phases, focusing on the areas where the information is most needed, such as areas within the 2030 MUSA. They should do this either as part of their local watershed planning process or as an implementation task identified in the local plan. Member cities developing or updating shall submit their comprehensive wetland management plans to the WMO for review and comment. (Goal 5.5.1 A, Goal 5.4.1 A) This requires member cities to classify wetlands in comprehensive plan or as part of project permitting; this reflects current city practice.

D. The WMO requires that member cities use a wetland classification system that ranks the wetlands and sets wetland management standards based on the rank and desired level of protection (e.g. highest to lowest protection). The wetland management standards should include buffer strip width, structural setback distance from buffer strip, amount of pretreatment required for phosphorus removal, storm bounce restrictions, and susceptibility of the wetlands to degradation by stormwater inputs. (Goal 5.5.1 A) Consider omitting as this is covered by buffer policy and city zoning codes. Pretreatment is required for discharges per NPDES permit. Stormwater bounce restrictions are not widely implemented, and the guidance was never formally adopted by the state.

Green = remain with minimal update Yellow = recommend updating Gray = recommend omitting/deleting Red text = notes regarding revision/omission

5.6 Groundwater Protection (for discussion at January 12, 2021 LMRWMO Meeting)

The WMO recognizes the importance of groundwater on its drinking water sources and the overall hydrology of the area. The following goals and policies have been developed to protect groundwater quality and supply throughout the WMO.

5.6.1 WMO Goals

A. Protect groundwater resources within the WMO.

Promote the protection of groundwater quality and quantity through annual collaboration with Dakota County, Minnesota Department of Natural Resources, and/or other agencies managing groundwater.

Promote groundwater conservation, infiltration, and water reuse through support of Master Water Stewards and at least XX education and outreach activities per year.

5.6.2 WMO Strategies

A. The WMO will work to improve the quality and availability of groundwater data. In addition, the WMO will coordinate with other agencies to identify sources or potential sources of groundwater pollution. (Goal 5.6.1 A) Revise to clarify the role of the LMRWMO. What types of actions will the LMRWMO perform?

The WMO will participate in regional groundwater planning efforts through annual collaboration with Dakota County, Minnesota DNR, Minnesota Department of Health, and other agencies managing groundwater.

The WMO will collaborate with member cities and other partners to promote individual landowner practices that protect groundwater resources through the development and distribution of educational materials, support of partner cost-share, workshops, and other events.

B. The WMO will advocate for larger scale State monitoring and evaluation of LID (Low Impact Development) techniques on groundwater. (Goal 5.6.1 A) Suggest omitting from policy and including as an activity, if desired, in implementation.

C. The WMO will support the policies in the Dakota County and Ramsey County groundwater plans. (Goal 5.6.1 A) Incorporated into revised strategy A (no specific roles for LMRWMO outlined in Dakota County GW Plan)

5.6.3 WMO Policies

A. Member cities are to encourage groundwater recharge and are required to protect recharge areas from potential sources of contamination. The cities should also provide increased green space, native vegetation, and pond "dead" storage, wherever possible and appropriate, to allow for the infiltration of stormwater runoff and promote groundwater recharge. (Goal 5.6.1 A, Goal 5.2.1 A) Suggest combining with Policy C and referencing the extensive existing guidance about use and protection if infiltration areas.

Green = remain with minimal update Yellow = recommend updating Gray = recommend omitting/deleting Red text = notes regarding revision/omission

Member cities shall promote or require infiltration through performance standards based on or similar to the MPCA's Minimal Impact Design Standards (MIDS) or National Pollutant Discharge Elimination System (NDPES) Construction Stormwater General Permit. Member cities shall restrict or prohibit infiltration when site conditions warrant consistent with the guidance provided in the General Construction Stormwater Permit and MPCA's MS4 Stormwater General Permit.

Above language is very similar to policy from "water quantity" section but slightly rephrased to emphasize the infiltration component

<u>Member cities shall require that infiltration/abstraction best management practices be designed</u> <u>consistent with guidance provided in the Minnesota Stormwater Manual and applicable City stormwater</u> <u>design guidance documents.</u>

B. Member cities responsible for with wellhead protection plans should shall follow the requirements outlined in those plans for managing groundwater within wellhead protection areas. (Goal 5.6.1 A)

C. The WMO encourages its member cities to use stormwater BMPs (such as grassed waterways, biofiltration, porous pavements, etc.) to maximize infiltration, where feasible and not detrimental to groundwater supplies. (Goal 5.6.1 A, Goal 5.2.1 A) Addressed via revised Policy A.

D. Each WMO member city is to maintain updated records of all known on-site septic systems and prohibit installation of new individual sewer systems or alteration, repair or extension of existing systems when connection can be made to the city sanitary sewer system. The cities are to notify property owners with on-site septic systems that they are required to connect to the cities' sanitary sewer, if available.

The cities are to also develop management programs and ordinances for subsurface sewage treatment systems (SSTS) that are consistent with MPCA standards and Minnesota Rules 7080 to 7083. (Goal 5.6.1 A) Suggest omitting based on assumption that LMRWMO will not be assuming a role for SSTS management.

E. Member cities should work with their counties in effort to promote awareness of groundwater resource issues through public education and information programs. (Goal 5.6.1 A, Goal 5.8.1 B) Suggest omitting as WMO has strategy to collaborate with Cities and County to promote groundwater issue awareness.

F. Member cities are to support the policies in the Dakota County and Ramsey County groundwater plans. Updated to include specific cooperative actions from the Dakota GW Plan.

Member cities shall coordinate with Dakota County or Ramsey County, as applicable, to receive and share well-testing and SSTS data collected and maintained by the counties.

5.7 Erosion and Sedimentation (for discussion at January 12, 2021 LMRWMO Meeting)

Erosion and sedimentation cause surface water quality degradation, habitat damage, and other water resource issues. The following goals and policies have been developed to prevent and minimize sedimentation from areas prone to erosion.

Green = remain with minimal update Yellow = recommend updating Gray = recommend omitting/deleting Red text = notes regarding revision/omission

5.7.1 WMO Goals

A. Minimize erosion, sedimentation, stream degradation, and related issues within the watershed.

Reduce sediment loading to the Mississippi River through the implementation of XX ravine improvement projects

Prevent or mitigate the impact of local erosion issues through the promotion of partner cost-share programs (e.g., Dakota County Landscaping for Clean Water)

5.7.2 WMO Strategies

A. The WMO shall address intercommunity erosion and sediment control issues. (Goal5.7.1 A) Revise to clarify the role and potential activities LMRWMO will take to address intercommunity erosion issues? Will this be limited to intercommunity, or consider priority waters (e.g., erosion of MS river ravines?)

The WMO will cooperate with member cities and other partners to address intercommunity erosion issues through technical assistance, programmatic support, and/or support for implementation of capital projects as applicable to specific issues and locations, prioritizing areas that drain to priority waterbodies or directly to the Mississippi River.

B. The WMO will facilitate joint certification training for member city staff on designing and inspecting erosion control plans and inspecting erosion control measures. (Goal 5.7.1 A, Goal 5.8.1 A) Consider omitting if this strategy has not been pursued. MPCA or others may be more suited to this role?

C. The WMO will coordinate/conduct non-certification training for "other" city staff (streets, parks, building inspections) to address items in MS4 permit (e.g. mowing and erosion control). (Goal 5.7.1 A, Goal 5.8.1 A) Consider omitting if this strategy has not been pursued. MPCA or others may be more suited to this role?

The WMO will continue to support partner cost-share, grant, and public education programming that seeks to implement small-scale stabilization and restoration projects (e.g., shoreline stabilization) and increase the use of pollution prevention practices within watershed communities.

5.7.3 WMO Policies

A. Member cities must adopt, administer, implement and shall continue to maintain and enforce ordinances local controls addressing erosion and sediment control, including the permitting and inspection of such controls. The ordinanceLocal controls must be in conformance with the NPDES <u>Construction Stormwater General Permit and City MS4 Stormwater Permitstandards, at a minimum. The</u> WMO suggests that the cities use the MPCA's model ordinance, which covers overall stormwater management. (Goal 5.7.1 A)

B. Member cities are to require erosion control plans for land development and construction work that will disturb one or more acres of land. Local watershed management plans and city ordinances are to include the requirements and procedures for reviewing, approving and enforcing the erosion control

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plans. Erosion Control Plans shall be prepared by a qualified individual and shall conform to the MPCA's NPDES General Permit to Discharge Stormwater from Construction Sites.

The erosion control plan shall also conform to all future NPDES stormwater regulations that apply to erosion control. (Goal 5.7.1 A). Consider omitting as redundant to MPCA general construction stormwater permit and MS4 requirements. LMRWMO may consider including something similar encouraging or requiring plans for sites that would not trigger NPDES permit.

Member cities are encouraged to require erosion and sediment control plans for projects disturbing less than one acre of land to minimize erosion and sedimentation during construction.

C. Acceptable erosion in drainage ways is limited to that which causes no net degradation of the watercourse or destruction of properties adjacent to the watercourse.

- Measures to alter the natural course and meandering of streams will be discouraged, except when foreseeable erosion threatens to damage structures, utilities or natural amenities, or impair the drainage system.
- Land use adjacent to watercourses shall be regulated to allow for the reasonably expected natural behavior of streams. (Goal 5.7.1 A)

Suggest omitting this policy, as phrased, as it is already covered by public waters law, buffers requirements and city shoreland ordinances consistent with MDNR standards (already covered by proposed policy).

D. <u>Member cities shall require that Design-design</u> of stream bank stabilization and streambed control measures should consider unique or special site conditions, energy dissipation potential, adverse effects, preservation of natural processes and habitat, and aesthetics, in addition to standard engineering and economic criteria. (Goal 5.7.1 A)

The following sections are planned for

discussion at the January 12, 2021 LMRWMO Meeting

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5.8 Public Participation and Education (for discussion at January 12, 2021 LMRWMO Meeting)

The WMO desires to foster responsible water quality management practices by educating residents, business owners, member city staff, elected officials, and developers about proper water resource management. It is important for these audiences to recognize their role in responsible water resource management in their homes, businesses, and practices, to help preserve and improve the resources present within the WMO. The following goals and policies have been developed to increased public participation and provide improved awareness on water resource issues throughout the WMO.

5.8.1 WMO Goals

A. Expand the WMO's education and public involvement efforts to provide more assistance to the member cities.

Increase community awareness of water and natural resource management issues via outreach activities and cooperation with member city and partner education and outreach programs.

B. Increase public awareness of human impacts on water quality and habitat and explore ways to increase active citizen involvement.

Increase community capacity to implement water and natural resource stewardship practices via outreach, support of Master Water Stewards, and support of partner engagement programs.

5.8.2 WMO Strategies

A. The WMO will develop and use email lists to communicate WMO activities, information, and announcements. (Goal 5.8.1 A, Goal 5.8.1 B) Update to include additional communication media

The WMO will develop and maintain electronic communication distribution lists as necessary to communicate WMO activities and information.

B. The WMO will develop appropriate, targeted educational content regarding water resource issues to be used by member cities for distribution to and use by various citizen groups such as: homeowners and renters; youth groups; and community groups such as Rotary, Lions, Kiwanis, ROMA (Responsible Owners and Managers Organization), WSCO (West Side Citizens Organization), All Around the Neighborhood, Chamber of Commerce, etc. The WMO will also utilize water resource materials to educate the public at community events and festivals throughout the WMO. (Goal 5.8.1 A, Goal 5.8.1 B)

The WMO will engage with Metro Watershed Partners, member cities, and/or other partners to develop and distribute educational materials addressing priority water and natural resource issues within the watershed.

The WMO will work with member cities to increase engagement of diverse communities within the watershed through targeted outreach activities.

Specific audiences/methods may be noted in the education subsection of the implementation section of the Plan.

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C. The WMO will maintain the WMO website to communicate watershed news, events, and other applicable water and natural resource information. WMO website address shall be included on all distributed material and will be updated regularly to serve as an additional source for watershed information(Goal 5.8.1 A, Goal 5.8.1 B)

D. The WMO shall seek citizen involvement to assist in the monitoring of water bodies or outlets (storm sewer or streams) to the Mississippi River. CAMP, WHEP, and CSMP are three programs that currently monitor water bodies in the WMO. The WMO shall solicit citizens (starting with the 3rd Generation Plan CAC) to either join these programs or start a new program for monitoring its water bodies. (Goal 5.8.1 B, Goal 5.3.1 A) Update to reflect current goals for volunteers, leveraging of master water stewards.

The WMO will continue to promote watershed resident involvement through volunteer opportunities and support of Master Water Stewards.

E. The WMO will continue to participate in the Blue Thumb Program or other similar programs. (Goal
 5.8.1 B) Revise to reference landscaping for clean water.

The WMO will continue to support Dakota SWCD Landscaping for Clean Water and/or similar programs.

F. The WMO will continue to support Clean Water Minnesota Media Campaign or develop "catchy" educational information, possibly through the use of an ad agency, focusing on water quality within the community. The ad agency may provide varying media techniques depending on the audience being targeted. Educational components shall be updated to avoid redundancy. (Goal 5.8.1 A, Goal 5.8.1 B) Consider omitting as replaced by support for Metro Watershed Partners

5.8.3 WMO Policies

A. Member cities' City Engineers and Public Works Officials are encouraged to attend Board Meetings to provide technical advice and information to the Board. (General Public Participation and Education)

B. Member cities are to make information available to active community groups such as Rotary, Lions, Kiwanis, ROMA (Responsible Owners and Managers Organization), WSCO (West Side Citizens Organization), All Around the Neighborhood, and Chamber of Commerce to educate and increase awareness of water resource issues throughout the WMO. (Goal 5.8.1 A, Goal 5.8.1 B) Suggest eliminating specific references to organizations. Consider requiring link/reference to LMRWMO website/contact info?

Member cities shall continue to implement education and outreach programs consistent with MS4 permit requirements and engage the WMO in these efforts, as appropriate.

5.9 Administration (for discussion at January 12, 2021 LMRWMO Meeting)

The WMO's administration can have a significant impact on the success of the 3rd Generation Watershed Management Plan. The following goals and policies are aimed at operational activities associated with water resource management within the WMO.

5.9.1 WMO Goals

Green = remain with minimal update Yellow = recommend updating Gray = recommend omitting/deleting Red text = notes regarding revision/omission

A. Meet the requirements set forth in the Metropolitan Surface Water Management Act regarding the management of a watershed management organization.

Execute the activities included in the LMRWMO implementation program while promoting efficiency, limiting organizational redundancy, and leveraging skills of partner organizations.

B. Increase efficiency of programs throughout the WMO and provide increased economic opportunities for the WMO and its member cities.

Maximize the financial capacity of the WMO through the pursuit, acquisition, and responsible use of grant and cost-share funding.

5.9.2 WMO Strategies

A. The WMO will explore opportunities to partner with other WMO/WD programs and County programs. The updates of neighboring WMO/WD plans may be an opportunity to explore these partnerships. (Goal 5.9.1 A, Goal 5.9.1 B) Suggest revising to clarify what partnerships might address (projects, monitoring, outreach, studies).

The WMO will continue to pursue partnerships with member cities, Dakota SWCD, and other organizations to pursue common objectives. Partnerships may include shared expertise and financial support for planning, programs, and/or projects.

B. The WMO will continue to publish an annual newsletter summarizing its activities for public distribution. (Goal 5.8.1 A, Goal 5.8.1 B) Revise to address annual reporting and progress assessment

The WMO will continue to summarize its activities in an annual report made available via the WMO website.

The WMO will assess progress towards goals at least biennially and update the status of items included in its implementation program.

C. The WMO will assist member cities (including being the applicant) in pursuing/securing grants for projects contained within an individual city and those that cross city boundaries. <u>The WMO will manage</u> grant funding for intercommunity projects, if requested. (Goal 5.9.1 A, Goal 5.9.1 B) Does strategy (or

other Plan text) need to clarify LMRWMO roles regarding grant admin? E.g., LMRWMO may administer grants for intercommunity projects?

D. The WMO will adhere to BWSR administrative performance standards (e.g. data practices policy, project and program expenditures, Board training, operational guidelines, water quality and watershed yield trends, and public information and education outcomes). (Goal 5.9.1 A) Consider omitting as this is a minimum requirement.

E. The WMO will utilize ad hoc subcommittees for special projects. (Goal 5.9.1 A, Goal 5.8.1 B) Consider omitting as strategy and describing in subsection of Implementation section that describes project implementation.

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F. The WMO will initiate the development of an eight to twelve member permanent CAC to serve as an ongoing advisory group. Citizens will be solicited as needed until the desired number is met. (Goal 5.9.1 A, Goal 5.8.1 B)

The WMO will convene a citizen advisory council (CAC) as needed to provide input on WMO programs and projects.

G. The WMO will continue to transition to an all-citizen Board. (Goal 5.9.1 A, Goal 5.8.1 B) Omit as complete.

H. The WMO will fund updating and maintenance of its web site (for posting data, the watershed management plan, etc.) through the WMO dues. (Goal 5.9.1 A) Detail to be included in implementation table.

I. The WMO will revise its joint powers agreement to reflect the 3rd Generation Watershed Management Plan. (Goal 5.9.1 A, Goal 5.3.1 C) Omit as complete.

J. The WMO's cost allocation for intercommunity flooding and erosion control studies and construction projects will continue to be based on allowable flow. (Goal 5.9.1 A) Update to reflect use of allowable flow and allowable load methodologies.

The WMO will continue to use its allowable flow and allowable load cost allocation methodologies to apportion project costs between participating member cities, as needed.

K. The WMO will provide technical review of projects, if requested by the member cities. Costs to complete these reviews may be charged back to member cities. (Goal 5.9.1 A) Clarify cost element.

L. The WMO will finance the implementation program elements through either the WMO dues (the annual contributions of its member cities) or some form of cost sharing in accordance with the joint powers agreement. The WMO and cities will also seek grants and other funding opportunities to help offset the costs of the WMO implementation tasksactivities. The WMO will assist member cities in pursuing grants, as requested. (Goal 5.9.1 A, Goal 5.9.1 B)

Consider omitting first part as it does not provide additional detail regarding funding methods. Funding sources for individual implementation items will be included in the implementation schedule.

M. The operation and maintenance costs associated with a WMO improvement project will be apportioned according to the WMO joint powers agreement, as revised. (Goal 5.9.1 A) Consider revising to generally include the procedure as described in the JPA.

The WMO will assign operation and maintenance costs of intercommunity improvement projects according to the methods described in the joint powers agreement.

N. Although the WMO will not be administering a permit program, the WMO will:

 Review projects for consistency with the WMO plan, as requested by member cities or other governmental agencies.

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- Review and approve comment on any proposed changes to the intercommunity stormwater system that are inconsistent with an approved local watershed management plan Consider changing to "review and comment on" as approval is not assumed.
- Review and <u>approve comment</u> any changes to the approved local plan that would cause the local plan to be inconsistent with the WMO plan. Consider changing to "review and comment on" as approval is not assumed.
- Review member city local plan updates for consistency with WMO Plan.
- Review annual progress reports from the member cities and provide areas that need to be addressed to keep in compliance with the WMO plan. The WMO may request specific projects be included in the annual progress report to review for conformance with the approved local plan.
- Reserve its authority under State Statute 103B to intervene in the permit process if a member city is determined to be out of compliance with its approved local watershed management plan and the WMO rules. It is the LMRWMO's preferred position to work cooperatively with the member cities and avoid unnecessary duplication of permitting. Consider omitting as the LMRWMO maintains this authority regardless of statement.
- Review member city comprehensive plan changes when revisions to their comprehensive plans affect water resource management. Stormwater management elements of the city comprehensive plans are to conform to the WMO plan. (Goal 5.9.1 A) Consider omitting as redundant to the review of local water plans (which are to be included within City Comp Plans).

5.9.3 WMO Policies

A. Member cities are to adopt new ordinances or revise existing ordinances that meet the WMO policies listed in this plan. (Goal 5.9.1 A) Expand to include "official controls" as not all guidance is provided in ordinance.

Member cities shall adopt (as needed) and maintain local official controls necessary to comply with the policies presented in this WMO Plan, as amended.

B. Member cities are to report their annual progress to the WMO. This may consist of each member city submitting an implementation plan progress update from their local water management plan. (Goal 5.9.1 A)

Comparison of LMRWMO, State, and City Performance Standards (draft 11/29/2021)

City/Entity	Definition	LMRWMO	LMRWMO Proposed (~status quo)	LMRWMO Stretch Standard (either watershed wide or in overlay zones/watersheds)	State Standard (NPDES construction permit unless noted)	Inver Grove Heights	West St. Paul
Water Quality Trigger	Trigger (typically area of disturbance) at which permanent stormwater treatment is required	1 acre distrurbance	1 acre distrurbance	0.5 acre distrurbance, or 10,000 sf increased impervious, part of common development	Development or redevelopment with 1 or more acres of cumulative impervious surface	1 acre distrurbance	>1 acre disturbance
Exemptions	Types of project exempt from stormwater treatment requirements or allowed to meet a lower standard	Linear projects, single family homes	Linear projects, single family homes	Linear projects, single family homes	None (alternative standard for linear projects with limited right of way)	Single residential lots	None (alternative standard for linear projects with limited right of way)
Water Quality Standard	Performance standard applicable to stormwater treatment (often % phosphorus removal or volume infiltrated)	50% TP reduction for runoff leaving development and redevelopment projects >1 acre	50% TP reduction OR 1 inch of volume retention from impervious surface	50% TP reduction OR 1 inch of volume retention from impervious surface	See volume control	See volume; for redevelopment, net reduction in P; 85% TSS and 55% TP if infiltration not possible	50% TP reduction (LWMP) or TMDL; No net increase TSS/TP/Volume annually (Zoning 153)
Volume Control Standard	Performance standard for volume control (often measured as depth over impervious area)	None	1 inch from new/redeveloped imp. Surface	1 inch from new/redeveloped imp. Surface	1 inch from increased impervious area	1 inch from new/redeveloped imp surface	1 inch from new/redeveloped imp surface is recommended
Rate Control Standard	Performance standard for rate control (often measured relative to current peak rates during design storm events.	No increase from 5-year (or 10-year) and 100-year 24 hour events (encourages 2-year also)	No increase from 2-year, 10- year, and 100-year 24 hour events	No increase from 2-year, 10-year, and 100-year 24 hour events	BMPs must be designed to control peak flow rate to minimize erosion	No increase from 2-, 5-, 10-, 100-year 24 hour events	No increase from 2-, 10-, 100-year 24 hour events
Erosion Control Requirements	Requirements/documentation of activities to control erosion during project construction	Require ESC ordinance consistent with NPDES	Require ESC ordinance consistent with NPDES	Require ESC ordinance consistent with NPDES	Permit required for sites >1 acre; requirements detailed in NPDES Construction Permit	ESC Plan (consistent with NPDES)	ESC Plan (consistent with NPDES)
Wetland buffer standard	Minimum average distance of vegetated area surrounding wetlands required when sites develop/redevelop	15 feet required for redevelopment > 1 acre	TBD, recommend at least 30 feet	Based on classification: 75/40/30/20 ft (Manage I, II, III, IV)	None	100 ft streams; MnRAM 60/30/20/15 ft (Manage I, II, III, IV) in NWA (applied throughout)	15 feet (LWMP); 30 feet Zoning 153
Minimum Building Elevations	Required elevation of lowest floor (including basement) relative to local high water levels (often 100-year level)	Require at minimum building elevation at least 1 foot above 100-year	Require at minimum building elevation at least 1 foot above 100-year	Require at minimum building elevation at least 2 feet above 100 year	basement 1 foot above 100-year flood level (per MNDR standard ordinance)	basement 2 feet above 100-year to lowest floor (more in LLB)	2 feet from 100-year WSEL to exposed ground elevation; basement 4 feet above current water table or 2 feet above historic high water table
BMP Maintenance Agreements	Local entity requirements for maintenance plans associated with permenent stormwater facilities	Runoff control plans must include maintenance agreement addressing stormwater facilities	Runoff control plans must include maintenance agreement addressing stormwater facilities	Runoff control plans must include maintenance agreement addressing stormwater facilities	Permanent BMP maintenance agreement required per most recent MS4 General Permit	Agreement required (SWMAP)	Long-term inspection and maintenance plans required with SWPPP
Stormwater Manual	Design manual containing stormwater design standards, if applicable	NA	NA	NA	MN Stormwater Manual	IGH Stormwater Manual	
Stormwater Manual Link	Link to design manual containing stormwater design standards, if applicable	NA	NA	NA	<u>https://stormwater.pca.state.mn.</u> <u>us/index.php?title=Main_Page</u>	<u>https://www.ighmn.gov/DocumentCenter/View/280/swmcovertoc?bidId=</u>	
LWMP	Link to local water management plan	NA	NA	NA	NA	https://www.ighmn.gov/DocumentCe nter/View/921/Inver-Grove-Heights- 2nd-Gen-Water-Resources-Manag	https://wspmn.gov/DocumentCenter /View/335/2018-Local-Surface-Water Management-Plan-pdf
City Code	Links to relevant city code	NA	NA	NA	NA	https://codelibrary.amlegal.com/code s/invergrovehtsmn/latest/invergrove hts_mn/0-0-0-1	https://codelibrary.amlegal.com/code s/weststpaul/latest/overview
Code Section(s)	Relevant city code sections	NA	NA	NA	NA	Code 9-5	Zoning 153

Comparison of LMRWMO, State, and City Performance Standards (draft 11/29/2021)

City/Entity	South St. Paul	Mendota Heights	St. Paul	Lilydale	Sunfish Lake
Water Quality Trigger	1 acre of disturbance (per LWMP) for WQ, 1 acre of imperviousness for volume	5,000 square feet disturbance	1 acre ESC/WQ	1 acre disturbance	1 acre disturbance for WQ
Exemptions	None (exemptions to land disturbing activity noted in City Code Section 110; alternative standards for linear projects)	None?	None?	None?	None (alternative standard for linear projects with limited right of way)
Water Quality Standard	50% TP per LWMP; See also volume (or MIDS offramp, 50% TP)	See volume; also 50% TP for sites >1 acre	see volume	50% TP reduction (LWMP) or TMDL; No net increase TSS/TP to DS waterbodies (LWMP)	50% TP reduction from sites 1 acre or more, or TMDL (superseded by volume)
Volume Control Standard	1.1 inch from new/redeveloped imp surface	1.1 inches of runoff off all new impervious surfaces	retain onsite a volume equivalent to 1.1 inches over the impervious surface (LWMP)	None	1 inch from NET new imp surface for sites with >1 acre impervious
Rate Control Standard	No increase from 2-, 10-, 100-year 24 hour events	No increase from 2-, 10-, 100-year 24 hour events	Peak stormwater discharge no grater than Q (cfs)=1.64*A(ac) for all storms up to the 100 year event (Code 5-52)	No increase from 1-, 2-, 10-, 100-year 24 hour events (LWMP)	No increase from 2-, 10-, 100-year 24 hour events
Erosion Control Requirements	ESC Plan (consistent with NPDES)	ESC Plan (consistent with NPDES)	ESC Plan (consistent with NPDES)	ESC Plan (consistent with NPDES)	ESC Plan (consistent with NPDES)
Wetland buffer standard	MnRAM 75/40/30/20 ft (Manage I, II, III, IV)	15 feet (LWMP);	30 feet (LWMP);	15 feet (LWMP);	16.5 feet (LWMP);
Minimum Building Elevations	basement 2 feet above 100-year to lowest floor (more in LLB)	Lowest floor at RFPE (100yr + 1 foot)	Lowest floor at RFPE (100yr + 1 foot) and 4 feet above normal groundwater elevation.	Lowest floor at RFPE (100yr + 1 foot)	Lowest floor at RFPE (100yr + 1 foot); low opening 3 ft above 100-year; basement 4 ft above current GW or 2 feet above historic GW
BMP Maintenance Agreements	Maintenance plans required with stormwater plan	Formal maintenance covenant that must be approved by the city and recorded at the Dakota County recorder's office prior to final plan approval	Maintenance plans required with stormwater plan	Maintenance reports from each development submitted annually (ordinance planned in 2018?)	Maintenance plan required per Eng. Design Standards for Stormwater Mgmt doc
tormwater Manual	Stormwater Management Design Standards	Land Disturbance Guidance Doc			Engineering Design Standards for Stormwater Mgmt (in LWMP)
tormwater Manual Link	https://www.southstpaul.org/Docum entCenter/View/2730/2018-South-St- Paul-Storm-Water-Runoff-Design- Standards-PDF?bidId=	https://mendotaheightsmn.gov/vertic al/Sites/%7BA0FB05B5-4CF8-4485- 84AA- 0C48D0BC98D7%7D/uploads/Land_D isturbance_Guidance_Document.pdf			see LWMP
LWMP	https://www.southstpaul.org/Docum entCenter/View/650/1261-56-SWMP- FINAL-07-17-19?bidId=	https://mendotaheightsmn.gov/vertic al/Sites/%7BA0FB05B5-4CF8-4485- 84AA- 0C48D0BC98D7%7D/uploads/Mendot aHeightsSWMP Final Jul2018 witho ut modeling - Copy sd from ks.pdf	https://www.stpaul.gov/sites/default /files/Media%20Root/Planning%20%2 6%20Economic%20Development/Sain t-Paul-For-All-2040-Comprehensive- Plan-Water-Resources.pdf	https://lilydale.govoffice.com/vertical /sites/%7BB50F2735-61FC-4A0D- BAE7- E8D4776BEE77%7D/uploads/Lilydale _2040_Comp_Plan_Reduced_File_Siz e.pdf	<u>https://sunfishlake.org/images/Permi</u> <u>ts/SunfishLakeStormwaterManageme</u> <u>ntPlan.pdf</u>
City Code	https://library.municode.com/mn/so uth_stpaul/codes/code_of_ordinan ces	https://codelibrary.amlegal.com/code s/mendotahtsmn/latest/mendotaheig hts_mn/0-0-0-6764	https://library.municode.com/mn/st. _paul/codes/code_of_ordinances	https://lilydale.govoffice.com/index.a sp?SEC=A126EC13-CC72-4678-87AC- 20EDEA71B1B4&Type=B_BASIC	https://www.sunfishlake.org/ordinan ces
Code Section(s)	Chapter 110 - Environment	Title 14 Chapter 1	Code Title VI Chapter 52	Ord. No 11-01, Code Section 406; Code Section 903.09	

6.0 Metro Watershed Partners 2022 Participation

METRO WATERSHED PARTNERS





651-523-2812 jlarson25@hamline.edu Attention: Joe Barten Lower Mississippi River WMO 4100 220th Street West, Suite 102 Farmington, MN 55024 Date: 12/17/21

Metro Watershed Partners Hamline University 1536 Hewitt Ave. MS-A1760 Saint Paul, MN 55104 Project Title: Clean Water Minnesota

Description	Cost
2022 Membership: Clean Water MN and Adopt-a-Drain	\$1,000.00
TOTAL	\$1,000.00

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 – 11am. Right now all meeting 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 (<u>jlarson25@hamline.edu</u>) and request to be added.
- Your organization will be listed as a supporting partner on <u>cleanwatermn.org/about-us</u>
- Your organization will be listed as a supporting partner on <u>adopt-a-drain.org</u> 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 <u>Adopt-a-Drain.org</u> 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 print resources to promote Adopt-a-Drain to residents in your area here: <u>https://www.cleanwatermn.org/partners/adopt-a-drain-resources/</u> (password: CleanWater)
- Portable educational exhibits are available for checkout. Find more information at: https://www.cleanwatermn.org/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, 2022. Unspent funds will rollover to support program activities in 2023.

Adopt-a-Drain in Lower Mississippi River WMO

2021 Annual Report





2021 Reporting Data

72 Lower Mississippi participants reported cleanings, which represents 28.4% of all participants in the watershed.

Lower Mississippi participants collected 2,393.8 lbs of debris from their adopted storm drains in 2021.

Debris Type	Amount (lbs)
Brown leaves	1,386.4
Grass and green leaves	216.2
Sediment and dirt	700.4
Trash	70.3
Salt	20.5



In 2020, the total amount reported was 4,458.25 lbs.

	New	Drains	Debris	Time spent
Month	participants	adopted	collected (lbs)	(hours)
January*	1	6	674.5	31.7
February			56.6	2.0
March	3	3	221.7	7.3
April	6	15	26.5	4.2
Мау	1	2	127.3	9.9
June	3	4	43.3	3.7
July	0	2	63.1	5.6
August	10	12	90.0	5.8
September	9	17	43.9	5.5
October	5	23	565.6	20.1
November	1	1	481.3	12.6
December				
TOTALS	39	85	2,393.8	108.4

*January total includes year-end reports from 2020.

Geographic Breakdown: City and Subwatershed Drains adopted: Cumulative total Debris collected: 2021 data only.

City	Drains adopted	Debris collected (lbs)	Time spent (hours)
Mendota Heights	128	1,291.44	69.1
West St. Paul	107	707.2	17.8
St. Paul	104	270.3	15.7
South St. Paul	30	59	1.9
Inver Grove Heights	29	4.3	0.7
Lilydale	2	61.6	3.0

	Drains	Debris	Time spent
Subwatershed	adopted	collected (lbs)	(hours)
City of St. Paul-			
Mississippi River	346	2,274.7	101.4
Lock and Dam No 2-			
Mississippi River	48	103.5	5.5
Gun Club Lake /			
Minnesota River	3	14.7	1.1
Rich Valley / Vermillion			
River	3	0.9	0.2



MEMORANDUM

То:	LMRWMO Board of Managers
From:	Joe Barten, Dakota County SWCD
Subject:	Illicit Discharge Video Participation
Date:	January 4, 2022

Summary

The LMRWMO was informed that the City of Eden Prairie staff are organizing the creation of a shared illicit discharge video for use by Metro Cities, Counties, and WMOs.

If the LMRMWO and its member Cities would like to have access to the 5-minute video for staff training purposes, it would cost around \$1,200 per organization to participate and equally share the total cost of approx.. \$17,738. There are currently 12-15 organizations interested in this project. The participating entities are below. The plan is for each entity to have a simple contract with Bolton & Menk to cover the costs. A final scope of work and agreement is pending, a draft is attached. Additional information on the scope of work and content/messaging for the video is below.

There is an optional addition to the base scope to have the video customized with LMRWMO branding or other items such as as post-video quizzes or other customization for an additional cost. It is anticipated that customization could be around \$1,000 to \$1,500 and would need to be discussed with Bolton & Menk when setting up the contract.

General scope of work:

- Video Priority Messaging Research (see following list)
- Focus Group Meeting (January/February) / Concept Storyboarding & Scripting Pitch
- Video Production and Edits
- Supporting Handout Production (Quiz or other)
- Final Review
- Final Packaging

Priority messages for the video:

1. What is an illicit discharge? Where are they typically found? What are common types, locations, etc.

c/o Dakota County Soil and Water Conservation District 4100 220th St. West Suite 102 Farmington, MN 55024 www.dakotaswcd.org/watersheds/lowermisswmo/ 2. Why do we care? What is an MS4 and why are they required to do this? Relationship to water quality.

3. How to recognize an illicit discharge.

4. When to look (on the job whether mowing, sweeping streets, inspecting homes, working in a park, inspecting ponds, etc. Think of all the employees who are out and about).

5. How to report an illicit discharge (basics applicable to all – fire, police, MPCA duty officer i.e.) for additional investigation.

6. Next steps of Enforcement Response Procedures

7. Prevention of illicit discharges

8. Safety considerations: When is a discharge an emergency? What to do when encountering a chemical hazard. When safe to clean up or contain small spills

9. Who to ask about disposal

- 10. How to interact with or report a person caught in the act of illegally dumping.
- 11. How to document illicit discharges

Board Action Requested: Consider participating in the creation of an illicit discharge video to help LMRWMO member Cities accomplish their MS4 training goals. Discuss possibility of LMRWMO branding for additional cost.

Attached: DRAFT Illicit Discharge Video Proposal and Scope

City of Eden Prairie: Illicit Discharge Video Proposal

Overview

Bolton & Menk will be working with the city of Eden Prairie to update its illicit discharge educational package, both internally and externally. Eden Prairie has reached out to a number of potential partners for this project. Project costs will be split equally among the participants. The city anticipates releasing the videos and supporting materials in the spring of 2022.

Bolton & Menk envisions several deliverables for this project:

- Internal training video. This video will be used to train internal staff on how to recognize illicit discharge and what to do if you see it. This video will bethree to five minutes long, memorable, and with a motion graphic style.
- **Public-facing video.** This video will be posted on the website and will educate the public on what illicit discharge is and how to report it. This video will be no more than two minutes long and have a motion graphic style.
- **Supporting handouts.** These handouts will serve as a visual summary of the videos and can be handed out to employees or placed on the website.
- **Leave-behinds.** Window stickers, mirror hangers, or other prizes will be created to remind employees how to report illicit discharge, even when they are on the road.

Optional services include:

- Web review. Our team will take a deep dive into each partner's website and suggest edits for its illicit discharge page.
- **Post-video quiz.** Our team will craft a short quiz for employees to take after they watch the training video.
- Video and handout customization. We will customize project materials upon request to match each partner's branding.

Timeline

Submit proposal to EP	October 11
Bolton & Menk will prepare a cost estimate and a proposal for the city to	
review.	
Eden Prairie Sends Proposal to Partners	October 18
Eden Prairie will send the proposal to potential partners.	
Video Topic Research	October/November
Our team will conduct research on the topic and compile the information needed to make the video	
Partner Approval	Before November 25
Final list of partners is assembled. Partners will sign an agreement form.	
Focus Group Meeting	Mid-December
Bolton & Menk will host a kickoff meeting with the project partners. This	
meeting will share a preliminary outline of the video, materials ideas, and	
video styles to choose from. Our team will gather feedback during this	
meeting to help refine the project vision and materials.	



Concept Storyboarding and Scripting	December/January
Our team will develop a detailed storyboard and script for the project team	
to review. We will also outline the handout materials that we will develop	
during the production phase.	
Storyboard and Script Pitch	Mid-January
We will host a pitch meeting to review the storyboard, script, handout, and	
leave-behinds with the team.	
Video and Handout Production	February/March
Our team will produce the videos, handouts, and leave-behinds.	
Final Review	March
Once the materials are created, we will share the final materials with the	
group for any final comments.	
Final Packaging	March
After the materials are produced, we will package all files for distribution to	
the partners.	

Partners and Cost

Please see below for a preliminary cost based on the services described in the scope. Please note that project costs will be split equally among the project partners. Optional tasks will be paid for by each partner.

Eden Prairie Illicit Discharge Videos						
		Project Manager	Project Communications Specialist	Video/Animation Lead	Administration	
Work Task Descriptions						Estimated Cost per Task
Task 1: Video Production						
Video Topic Research and Concept Storyboarding			18	12	2	\$4,018
Storyboard Pitch Meeting			4	4		\$1,360
Video Production and Edits			12	62		\$8,120
Supporting Handouts			12	12		\$3,120
Final Packaging		2	2	4		\$1,120
Optional Tasks						
Web Review			4			\$480
Post-video quiz			6	4		\$1,120
Video and Handout Customization			4	8		\$1,280
Total			1		1	\$17,738
Total with optional tasks						\$20,618

