

Black Dog Watershed Management Commission

AGENDA

Wednesday, June 16, 2021

5:00 P.M.

COMMISSIONERS:

Curt Enestvedt, Chairperson
Mike Hughes, Vice-Chairperson
Scott Thureen, Secretary/Treasurer
Tom Harmening
Rollie Greeno
Frank Boyce, Alternate
Greg Helms, Alternate
Natalie Walker, Alternate

- I. Approval of Agenda
- II. Approval of Minutes – May 19, 2021
- III. Approval of Accounts Payable
- IV. Review Budget Performance Reports
- V. Review Comments on the Land and Water Resource Inventory
- VI. Discuss Issue and Resource Prioritization for the Plan Update
- VII. Review How to Conduct Future Black Dog WMO Public Meetings
- VIII. Miscellaneous
- IX. Adjournment

The City of Burnsville and Black Dog Watershed Management Organization do not discriminate on the basis of race, color, national origin, sex, religion, age, or disability in the admission or access to, or treatment or employment in, its programs, activities, or services.

To obtain this information in alternative forms such as braille, large print, audiotape or qualified readers, please contact the City of Burnsville. Telephone (952) 895-4400, TDD (952) 895-4567.

Black Dog Watershed Management Commission

Agenda Background June 16, 2021

I. Approval of Agenda

Agenda enclosed.

Action Requested: A motion be considered to approve the Agenda.

II. Approval of Minutes from the May 19, 2021 Meeting

Minutes enclosed.

Action Requested: A motion be considered to approve the Minutes of the May 19, 2021 meeting.

III. Approval of Accounts Payable

Accounts payable list enclosed.

Action Requested: A motion be considered to approve the accounts payable list as submitted by staff.

IV. Review of Budget Performance Reports

Current Budget Performance Reports enclosed.

Action Requested: No formal action required

V. Review Comments on the Land and Water Resource Inventory

Barr Engineering staff will lead a discussion on the Land and Water Resource Inventory. The Commission will review and discuss any comments and questions received prior to this meeting.

Action requested: A motion be considered to approve the Land and Water Resource Inventory with any edits recommended.

VI. Discuss Issue and Resource Prioritization for the Plan Update

Barr Engineering will lead a workshop on issue and resource prioritization as it relates to the plan update. Included in the packet is a memo and attachments to assist in this discussion. The memo describes the actions to be considered for this item.

Action requested: Consider a motion approving the recommended prioritization scheme.

VII. Review How to Conduct Future Black dog WMO Public Meetings

Staff will lead a discussion with Commissioners on how future public meetings will be held. In March of 2020 the Black Dog WMO started holding all meetings virtually due to Covid-19. With restrictions related to Covid-19 being reduced the possibility of holding in person meetings sometime in the future is now available.

Action Requested: The Commission consider a motion outlining how future public meetings will be conducted.

VIII. Miscellaneous

Black Dog Watershed Management Commission

DRAFT **Meeting Minutes** **May 19, 2021**

MEMBERS PRESENT

Mike Hughes, Vice Chair
Tom Harmening (*left @ 5:45pm*)
Greg Helms, Alternate (voting)
Natalie Walker, Alternate (voting)

MEMBERS ABSENT

Curt Enestvedt, Chair
Scott Thureen, Secretary/Treasurer
Rollie Greeno
Frank Boyce, Alternate

OTHERS PRESENT

Karen Chandler – Barr Engineering
Greg Williams – Barr Engineering
Samantha Berger – City of Apple Valley
Joel Jamnik, Campbell Knutson
Lindsey Albright – Dakota County Soil and Water Conservation District
Ann Messerschmidt – City of Lakeville
Daryl Jacobson – BDWMO Administrator
Tammi Carté – BDWMO Secretary

Mike Hughes, Vice Chair, called the May 19, 2021, meeting to order at 5:02pm via Zoom.

I. Approval of Agenda

Motion by Helms, second by Harmening, to approve the May 19, 2021 Agenda as presented.

Ayes – Hughes, Harmening, Helms, Walker
Nays – None

Motion Carried Unanimously

II. Approval of Minutes from the April 21, 2021 Meeting

Motion by Harmening, second by Helms, to approve the April 21, 2021 Minutes as presented.

Ayes – Hughes, Harmening, Helms, Walker
Nays – None

Motion Carried Unanimously

III. Approval of Accounts Payable

Motion by Harmening, second by Helms, to approve payments to Barr Engineering in the amount of \$7,563.04 for services from April 3, 2021 through April 30, 2021; and, to Dakota County SWCD in the amount of \$680.00 for services from January 2021 through March 2021.

Ayes – Hughes, Harmening, Helms, Walker

Nays – None

Motion Carried Unanimously

IV. Review Budget Performance Reports

Daryl Jacobson, BDWMO Administrator – nothing significant to report.

No Formal Action Required

V. Approve Liability Coverage Waiver Form

Each year in conjunction with completing the BDWMO's insurance application the Commission is required to complete a Liability Coverage Waiver Form. This form states whether or not the WMO wishes to waive the statutory tort liability limits. Historically, the Black Dog WMO has chosen not to waive the monetary limits on tort liability established by MN statutes.

Motion by Harmening, second by Helms, to approve liability coverage waiver form not waiving the monetary limits on municipal tort liability established by MN Statutes 466.04.

Ayes – Hughes, Harmening, Helms, Walker

Nays – None

Motion Carried Unanimously

VI. Approve 2020 Annual Financial Statement

The annual financial statement is used to replace a financial audit. A copy of the statement was provided to the Commission for review prior to this meeting. Once approved, it will be added to the annual activity report and submitted to the Board of Soil and Water Resources.

There weren't any unexpected costs or savings during 2020.

Motion by Helms, second by Harmening, to approve the annual financial statement.

Ayes – Hughes, Harmening, Helms, Walker

Nays – None

Motion Carried Unanimously

VII. Approve Draft 2022 Work Plan and Budget

A copy of the Draft Work Plan and Budget for 2022 was provided to the Commission for review prior to this meeting. Per the BDWMO Joint Powers Agreement, the Commission is to send out a proposed budget for 2022 by July 1, 2021.

Barr Engineering reviewed the content of the draft plan. Daryl Jacobson discussed there were expected standard increases to the proposed 2022 budget. The last part of the alum treatment will be applied this year and could put the Commission near the annual expenditures threshold of needing an audit next year. If that happens, the cost of adding an audit to the budget would be \$5,000. The SWCD Landscaping for Clean Water program is proposing an additional project. The addition would be revisiting previous projects to provide an update on their effectiveness. The cost to add this would be \$1,800.

Motion by Helms, second by Harmening, to approve the 2022 Work Plan and Budget for distribution to the member communities with the suggested addition to the budget in the amount of \$6,800.

Ayes – Hughes, Harmening, Helms, Walker

Nays – None

Motion Carried Unanimously

VIII. Review a Summary of Land and Water Resources Inventory for the Watershed

A copy of the inventory was provided to the Commission for review prior to this meeting. This process is part of the 10 year watershed plan update. Barr Engineering provided a summary of the inventory. Next steps would be Commissioner review of the inventory and providing comments, recommendations, and questions to Barr prior to the June meeting.

No Formal Action Required

IX. Miscellaneous

1. The next meeting is scheduled for June 16, 2021.
2. Participation at the June meeting will be important to help prioritize and schedule issues related to the plan update.
3. The June meeting will be held via Zoom. Included will be a discussion about whether or not to resume in-person meetings.

X. Adjournment

Motion by Helms, second by Walker, to adjourn at 6:11pm.

Ayes – Hughes, Helms, Walker

Nays – None

Motion Carried Unanimously

BLACK DOG WATERSHED MANAGEMENT COMMISSION
100 Civic Center Parkway
Burnsville, MN 55337

Accounts Payable - June 16, 2021 Meeting

Barr Engineering - Services from May 1, 2021 through May 28, 2021

Engineering	\$	2,564.50
Special Projects General Fund - Crystal Lake Mgmt Level Monitoring	\$	1,830.82
Special Projects General Fund Reserve - Watershed Mgmt Plan Update	\$	1,085.00
Water Quality Monitoring - Kingsley Lake Habitat Monitoring	\$	369.00
Public Education - Annual Activity Report (BWSR)	\$	148.00
	\$	<u>5,997.32</u>

Campbell Knutson

April 2021 - General Services	\$	<u>238.00</u>
	\$	<u>238.00</u>

Accounts Payable Total \$ 6,235.32

resourceful. naturally.
engineering and environmental consultants



June 7, 2021

Black Dog Watershed Management Commission
City of Burnsville
13713 Frontier Court
Burnsville, MN 55337-4720

Attn: Mr. Daryl Jacobson

RE: Engineering & Environmental Consulting Services

**Invoice of Account with
BARR ENGINEERING COMPANY**

For professional services during the period of May 1, 2021 through May 28, 2021

TOTAL PAYABLE THIS INVOICE:	\$ 5,997.32
Allocation:	
Engineering	\$ 2,564.50
Special Projects General Fund	
• Crystal Lk Mgmt Level Monitoring	\$ 1,830.82
Special Projects General Fund Reserve	
• Watershed Mgmt Plan Update	\$ 1,085.00
Water Quality Monitoring	
• Kingsley Lake Habitat Monitoring	\$ 369.00
Public Education	
• Annual Activity Report (BWSR)	\$ 148.00

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

6-8-21
OK

Karen L. Chandler
Vice President

BUDGET SUMMARY - 2021 FY
Black Dog Watershed Management Commission
through May 28, 2021

Work Description	Pre-2021 Costs	Barr Budget			Current Invoice	Spent This Year	Balance
		Brought Forward	Current Year	Total Barr Budget			
Engineering	-----	0.00	31,000.00	31,000.00	2,564.50	11,689.00	19,311.00
Special Projects: General Fund							
<i>Reporting on Orchard Lk 2020 Water Quality Monitoring</i>	-----	0.00	4,500.00	4,500.00	0.00	4,126.00	374.00
<i>Crystal Lake 2021 Mgmt Level Monitoring</i>			18,800.00	18,800.00	1,830.82	2,874.36	15,925.64
Subtotal -- Special Projects: General Fund	-----	0.00	23,300.00	23,300.00	1,830.82	7,000.36	16,299.64
Special Projects: Capital Improvement Fund							
<i>Keller Lake Alum Treatment</i>			10,000.00	10,000.00	0.00	2,030.00	7,970.00
Subtotal -- Special Projects: Capital Improvement Fund	-----	0.00	10,000.00	10,000.00	0.00	2,030.00	7,970.00
Special Projects: General Fund Reserve							
<i>Watershed Management Plan Update¹</i>	10,905.00		70,000.00	70,000.00	1,085.00	10,451.00	59,549.00
Subtotal -- Special Projects: General Fund Reserve	-----	0.00	70,000.00	70,000.00	1,085.00	10,451.00	59,549.00
Water Quality Monitoring							
<i>Reporting on 2020 Keller Lake Habitat Monitoring</i>	-----	0.00	8,000.00	8,000.00	0.00	7,983.50	16.50
<i>2021 Kingsley Lake Habitat Monitoring</i>		0.00	3,300.00	3,300.00	369.00	369.00	2,931.00
<i>Update Trend Analyses</i>	-----	0.00	2,000.00	2,000.00	0.00	2,000.00	0.00
Subtotal -- W.Q. Monitoring	-----	0.00	13,300.00	13,300.00	369.00	10,352.50	2,947.50
Public Education							
<i>Watershed Annual Report</i>	-----	0.00	4,300.00	4,300.00	0.00	3,519.00	781.00
<i>Annual Activity Report (BWSR)</i>	-----	0.00	2,000.00	2,000.00	148.00	1,461.50	538.50
Subtotal -- Public Education	-----	0.00	6,300.00	6,300.00	148.00	4,980.50	1,319.50
Total Services	-----	0.00	153,900.00	153,900.00	5,997.32	46,503.36	107,396.64

Notes:

¹ Plan Update budget=\$98,200 (\$97,000 authorized at 11/18/2020 meeting, additional \$1,200 authorized at 1/20/2021 meeting), including \$10,000 budgeted in 2020



INVOICE

Barr Engineering Co.
4300 MarketPointe Drive, Suite 200
Minneapolis, MN 55435
Phone: 952-832-2600; Fax: 952-832-2601
FEIN #: 41-0905995 Inc: 1966

Mr. Daryl Jacobson
Black Dog WMO
City of Burnsville
13713 Frontier Court
Burnsville, MN 55337-4720

June 7, 2021
Invoice No: 23190374.21 - 5

Total this Invoice	\$2,712.50
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Regarding: BDWMO 2021 Engineering Services

Professional Services from May 1, 2021 to May 28, 2021

Job:	2021	Engineering Services
Task:	001	Attend BDWMO Meetings

Labor Charges

	Hours	Rate	Amount
Principal			
Chandler, Karen	1.40	185.00	259.00
Engineer / Scientist / Specialist III			
Williams, Sterling	1.20	150.00	180.00
	2.60		439.00
Subtotal Labor			439.00
		Task Subtotal	\$439.00

Task:	002	Miscellaneous Consulting
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Labor Charges

	Hours	Rate	Amount
Principal			
Chandler, Karen	7.40	185.00	1,369.00
Engineer / Scientist / Specialist IV			
Wilson, Gregory	1.00	175.00	175.00
Engineer / Scientist / Specialist III			
Menken, Kevin	1.50	125.00	187.50
Wold, Karen	2.10	140.00	294.00
Support Personnel II			
Nypan, Nyssa	1.00	100.00	100.00
	13.00		2,125.50
Subtotal Labor			2,125.50
		Task Subtotal	\$2,125.50

Task:	003	Annual BWSR Activity Report
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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.

Labor Charges

	Hours	Rate	Amount	
Principal				
Chandler, Karen	.80	185.00	148.00	
	.80		148.00	
Subtotal Labor				148.00
		Task Subtotal		\$148.00
		Job Subtotal		\$2,712.50
		Total this Invoice		\$2,712.50

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	2,712.50	13,957.00	16,669.50	13,957.00	2,712.50

Thank you in advance for the prompt processing of this invoice. If you have any questions, please contact Karen Chandler, your Barr project manager, at (952) 832-2813 or email at kchandler@barr.com.



INVOICE

Barr Engineering Co.
4300 MarketPointe Drive, Suite 200
Minneapolis, MN 55435
Phone: 952-832-2600; Fax: 952-832-2601
FEIN #: 41-0905995 Inc: 1966

Mr. Daryl Jacobson
Black Dog WMO
City of Burnsville
13713 Frontier Court
Burnsville, MN 55337-4720

June 7, 2021
Invoice No: 23190375.21 - 5

Total this Invoice	\$1,830.82
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Regarding: Management Level Water Quality Monitoring

Professional Services from May 1, 2021 to May 28, 2021

Job:	CRY	Crystal Lk 2021 Water Quality Monitoring
Task:	100	Monitoring Data Mgmt & Proj Mgmt

Labor Charges

	Hours	Rate	Amount
Engineer / Scientist / Specialist III			
Olson, Terri	.60	150.00	90.00
Technician II			
Novack, John	5.00	105.00	525.00
Technician I			
Melmer, David	7.90	90.00	711.00
Support Personnel II			
Treanor, Margaret	1.50	115.00	172.50
Support Personnel I			
Rasmussen, Kayla	.10	80.00	8.00
	15.10		1,506.50

Subtotal Labor

1,506.50

Unit Charges

Barr Owned Vehicle Use	1.0 day @ 90.00	90.00
Canoe	1.0 day @ 32.00	32.00
Ice (per bag)	4.0 ea @ 2.50	10.00
Kemmerer Vertical Bottle Sampler	2.0 use @ 33.50	67.00
Vehicle (Mileage)	72.0 miles @ 0.56	40.32
Water Quality Meter (YSI 556 MPS)	1.0 day @ 85.00	85.00

Subtotal Units

324.32

Task Subtotal \$1,830.82

Job Subtotal \$1,830.82

Total this Invoice \$1,830.82

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	1,830.82	5,169.54	7,000.36	5,169.54	1,830.82

Thank you in advance for the prompt processing of this invoice. If you have any questions, please contact Kevin Menken, your Barr project manager, at (952) 832-2794 or email at kmenken@barr.com.

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.



INVOICE

Barr Engineering Co.
4300 MarketPointe Drive, Suite 200
Minneapolis, MN 55435
Phone: 952-832-2600; Fax: 952-832-2601
FEIN #: 41-0905995 Inc: 1966

Mr. Daryl Jacobson
Black Dog WMO
City of Burnsville
13713 Frontier Court
Burnsville, MN 55337-4720

June 7, 2021
Invoice No: 23190457.21 - 4

Total this Invoice	\$369.00
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Regarding: Habitat Monitoring

Professional Services from May 1, 2021 to May 28, 2021

Job:	KING	Kingsley Lake 2021 Habitat Monitoring
Task:	001	Monitoring Sample Plots

Labor Charges

	Hours	Rate	Amount
Engineer / Scientist / Specialist III			
Wold, Karen	1.80	140.00	252.00
Technician I			
Melmer, David	1.30	90.00	117.00
	3.10		369.00
Subtotal Labor			369.00
		Task Subtotal	\$369.00
		Job Subtotal	\$369.00
		Total this Invoice	\$369.00

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	369.00	7,983.50	8,352.50	7,983.50	369.00

Thank you in advance for the prompt processing of this invoice. If you have any questions, please contact Karen Wold, your Barr project manager, at (952) 832-2707 or email at kwold@barr.com.

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.



INVOICE

Barr Engineering Co.
4300 MarketPointe Drive, Suite 200
Minneapolis, MN 55435
Phone: 952-832-2600; Fax: 952-832-2601
FEIN #: 41-0905995 Inc: 1966

Mr. Daryl Jacobson
Black Dog WMO
City of Burnsville
13713 Frontier Court
Burnsville, MN 55337-4720

June 7, 2021
Invoice No: 23191455.00 - 6

Total this Invoice	\$1,085.00
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Regarding: BDWMO 2022 Watershed Management Plan

Professional Services from May 1, 2021 to May 28, 2021

Job:	100	Stakeholder Engagement
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Task:	005	Board Issue Workshop(s)
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Labor Charges

	Hours	Rate	Amount
Principal			
Chandler, Karen	.80	185.00	148.00
	.80		148.00
Subtotal Labor			148.00
		Task Subtotal	\$148.00
		Job Subtotal	\$148.00

Job:	200	Draft Plan Development
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Task:	001	Physical Environment Inventory
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Labor Charges

	Hours	Rate	Amount
Principal			
Chandler, Karen	.20	185.00	37.00
Engineer / Scientist / Specialist III			
Williams, Sterling	6.00	150.00	900.00
	6.20		937.00
Subtotal Labor			937.00
		Task Subtotal	\$937.00
		Job Subtotal	\$937.00
		Total this Invoice	\$1,085.00

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	1,085.00	10,300.00	11,385.00	10,300.00	1,085.00

Thank you in advance for the 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.

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.

CAMPBELL KNUTSON
Professional Association
Attorneys at Law
Federal Tax I.D. #41-1562130
Grand Oak Office Center I
860 Blue Gentian Road, Suite 290
Eagan, Minnesota 55121
(651) 452-5000

Black Dog Watershed Management Organization
Attention: Daryl Jacobson
City of Burnsville
100 Civic Center Parkway
Burnsville MN 55337-3817

Page: 1
April 30, 2021
Account # 602-0000G
363

RE: GENERAL SERVICES
RENDERED TO DATE:

			HOURS	
04/05/2021	JJJ	Emails Daryl re: notice for special meetings, OML issues/advise.	0.40	68.00
04/21/2021	JJJ	Review agenda and board packet materials.	0.50	85.00
	JJJ	Attend board meeting.	0.50	85.00
		AMOUNT DUE	1.40	238.00
		TOTAL CURRENT WORK		238.00
		PREVIOUS BALANCE		\$391.00
05/12/2021		Payment - thank you		-391.00
		TOTAL AMOUNT DUE		<u>\$238.00</u>

OK
Daryl Jacobson
6-9-21

Amounts due over 30 days will be subject to a finance charge of .5% per month (or an annual rate of 6%). Minimum charge - 50 cents.

BLACK DOG WMO
CASH ACTIVITY REPORT 2021

				Expenditures:												
				Monthly	General	Special	Special	Special								
Date	Description	Deposits	Check #	Check Amount	Cash Balance	Engineering Support	Projects (General)	Projects (Capital)	Projects (Gen. Reserve)	Insurance	Legal & Audit	Admin Support	Public Education	Water Quality Monitoring	Conf Public	Contingency
Balance as of 12/31/20					572,983.92											
20-Jan	Barr Engineering Co (2020)		1745	4,253.50		2,637.50	1,508.00	-	-					108.00		
20-Jan	Campbell Knutson (2020)		1746	85.00							85.00					
20-Jan	Met Council - Environ Services (2020)		1747	3,040.00										3,040.00		
31-Jan	Interest Income	9.67														
01/31/20 Balance		9.67		7,378.50	565,615.09	2,637.50	1,508.00	-	-	-	85.00	-	-	3,148.00	-	-
17-Feb	Barr Engineering Co		1748	5,732.00		2,284.00	89.50	1,155.00	1,186.00					1,017.50		
17-Feb	Campbell Knutson		1749	340.00							340.00					
17-Feb	City of Burnsville (2020)		1750	19,101.21								19,101.21				
17-Feb	Dakota County Soil & Water (2020)		1751	2,765.00			2,250.00	-	-				515.00			
28-Feb	Interest Income	8.72														
02/28/20 Balance		8.72		27,938.21	537,685.60	2,284.00	2,339.50	1,155.00	1,186.00	-	340.00	19,101.21	515.00	1,017.50	-	-
17-Mar	Barr Engineering		1752	11,973.00		1,912.00	2,084.00	525.00	1,232.00					5,736.50		
31-Mar	Interest Income	8.17														
03/31/20 Balance		8.17		11,973.00	525,720.77	1,912.00	2,084.00	525.00	1,232.00	-	-	-	483.50	5,736.50	-	-
21-Apr	Barr Engineering		1753	15,238.00		3,632.50	2,141.50	350.00	2,736.00					2,917.00		
21-Apr	Campbell Knutson		1754	391.00							391.00					
30-Apr	Interest Income	4.22														
04/30/20 Balance		4.22		15,629.00	510,095.99	3,632.50	2,141.50	350.00	2,736.00	-	391.00	-	3,461.00	2,917.00	-	-
19-May	Barr Engineering		1755	7,563.04		1,296.00	854.54	-	4,212.00					312.50		
19-May	Dakota County Soil & Water Conservation		1756	680.00									888.00			
31-May	Interest Income	4.35											680.00			
05/31/20 Balance		4.35		8,243.04	501,857.30	1,296.00	854.54	-	4,212.00	-	-	-	1,568.00	312.50	-	-
Total Revenue		35.13	Total Expense		71,161.75	11,762.00	8,927.54	2,030.00	9,366.00	-	816.00	19,101.21	6,027.50	13,131.50	-	-
Less: 2020 A/R		-	Less: 2020 A/P		(29,244.71)	(2,637.50)	(3,758.00)	-	-	-	(85.00)	(19,101.21)	(515.00)	(3,148.00)	-	-
Total YTD 2020 Revenue		35.13	Total YTD 2021 Exp		41,917.04	9,124.50	5,169.54	2,030.00	9,366.00	-	731.00	-	5,512.50	9,983.50	-	-
			2021 Budget		214,500.00	31,000.00	36,800.00	10,000.00	70,000.00	3,000.00	5,000.00	18,000.00	18,100.00	17,100.00	500.00	5,000.00
			Budget Remaining		172,583.00	21,876.00	31,630.46	7,970.00	60,634.00	3,000.00	4,269.00	18,000.00	12,587.50	7,116.50	500.00	5,000.00

BLACK DOG WATER MANAGEMENT COMMISSION

Budget Performance Report May 31, 2021

	CURRENT MONTH	YEAR TO DATE			
	ACTUAL	GENERAL FUND BUDGET	CAPITAL IMPROVEMENT FUND BUDGET	ACTUAL	VARIANCE FAVORABLE (UNFAVORABLE)
Opening Fund Balance		\$ 421,605	\$ 122,135	\$ 543,739	
REVENUES :					
Member Contributions:					
City of Apple Valley	\$ -	\$ 10,489	\$ 1,773	\$ -	\$ (12,262)
City of Burnsville	-	93,924	16,133	-	(110,057)
City of Eagan	-	580	-	-	(580)
City of Lakeville	-	26,007	4,094	-	(30,101)
Total Member Contributions	-	131,000	22,000	-	(153,000)
Other Revenues:					
Interest	\$ 4	\$ 40	\$ -	\$ 35	\$ (5)
Grant (State of MN BWSR)	-	-	-	-	-
Total Other Revenue	4	40	-	35	(5)
Total Revenues	\$ 4	\$ 131,040	\$ 22,000	\$ 35	\$ (153,005)
EXPENDITURES :					
General Engineering Support	\$ 1,296	\$ 31,000	\$ -	\$ 9,125	\$ 21,876
Special Projects - General Fund	855	36,800	-	5,170	31,630
Special Projects - Capital Improvement Fund	-	-	10,000	2,030	7,970
Special Projects - General Fund Reserve	4,212	70,000	-	9,366	60,634
Insurance	-	3,000	-	-	3,000
Legal and Audit	-	5,000	-	731	4,269
Administrative Support	-	18,000	-	-	18,000
Public Education	1,568	18,100	-	5,513	12,588
Water Quality Monitoring	313	17,100	-	9,984	7,117
Conference/Publications	-	500	-	-	500
Contingency	-	5,000	-	-	5,000
Total Expenditures	8,243	204,500	10,000	41,917	172,583
EXCESS OF REVENUES OVER (UNDER) EXPENDITURES	(8,239)	(73,460)	12,000	(41,882)	
EXCESS OF REVENUES OVER (UNDER) EXPENDITURES PLUS OPENING FUND BALANCE				501,857	
TOTAL CASH AVAILABLE 5/31/2021	501,857				
Fund Balance 5/31/2021	\$501,857				

Memorandum

To: Black Dog Watershed Management Organization (BDWMO) Commissioners
From: Greg Williams, PE, Barr Engineering Co.
Subject: Summary of issue identification activities to inform BDWMO Watershed Management Plan update
Date: June 8, 2021
Project: 23191455
c: Daryl Jacobson, BDWMO Administrator

Requested BDWMO Commission actions:

1. Review this memorandum and attached stakeholder engagement activity summaries.
2. Consider and revise, as needed, the criteria to establish strategic waterbodies and, if possible, identify strategic waterbodies for the 2022 Plan.
3. Consider whether additional resources or areas should be identified as a priority for BDWMO management.
4. Consider approving the recommended issue prioritization scheme.

1.0 Background

The Black Dog Watershed Management Organization (BDWMO) commissioners are in the process of updating the BDWMO Watershed Management Plan (Plan). Identifying priority issues and resources to be addressed by the Plan is an important step as it focuses subsequent Plan development efforts and, ultimately, Plan implementation actions. The stakeholder engagement plan developed by the BDWMO commissioners includes several activities intended to identify and prioritize issues and resources. These activities include:

- Soliciting responses to the Plan update notification
- Interviews with member city and partner staff
- Technical Advisory Committee (TAC) meeting
- Online survey
- Plan initiation (public kickoff) meeting

Several of these activities have been summarized in prior memoranda provided to the Commissioners (see attached). In addition, Barr Engineering Co. (Barr) reviewed the discussion of issues from the 2012 BDWMO Watershed Management Plan (2012 Plan); this information was presented at the public kickoff meeting. Barr also reviewed and presented the criteria to establish "strategic waterbodies" (i.e., resource prioritization) to the Commissioners at the May 19, 2021 BDWMO meeting.

2.0 Summary of Issue Identification Results

2.1 Responses to the Plan Update Notification

Responses to the Plan update notification letter identified several focus areas related to natural resources as well as topics related to BDWMO operations (i.e., how the Plan is implemented). Resource issues identified include:

- Groundwater sustainability
- Chloride reduction
- Invasive species management
- Pollution prevention and water quality treatment of stormwater runoff
- Peak stormwater flow rate and volume reductions
- Focus on impaired waterbodies (e.g., Keller Lake) and those close to impairment
- Management of subsurface sewage treatment systems (SSTS)
- Use of in-lake water quality treatment (e.g., alum treatment)

Additional focus areas more closely related to “how” the Plan is implemented include:

- Increased emphasis on measurable goals
- Prioritization and targeting of implementation activities
- Emphasis on collaboration with partners

2.2 Member City and Partner Interviews

Barr interviewed member city and partner organization staff to better understand the value of BDWMO services, primary issues facing BDWMO partners, and opportunities to improve working relationships. The interviews identified the following major themes:

- Partners are generally happy with their working relationships with the BDWMO.
- Partners may achieve additional water and natural resource goals with additional capacity/assistance from the BDWMO.
- Partners see opportunities for an increased role of the BDWMO with respect to assisting with project funding (grants, cost-share programs), education, public engagement, and resident water resource programming.

The interviews identified few significant water quality, flooding, or natural area issues that need to be addressed in the next Plan; specific issues raised include:

- Aquatic invasive species management
- Localized flooding issues upstream of Crystal Lake
- Erosion resulting from increased precipitation intensity
- Chloride reduction

- Maintenance of private best management practices (BMPs)
- Delisting of Keller Lake

2.3 Technical Advisory Committee (TAC) Meeting

The Plan update Technical Advisory Committee (TAC) – comprised of staff of the BDWMO member cities, Dakota County, Dakota SWCD, Metropolitan Council, and State plan review agencies – met on March 12, 2021 to discuss issues to be addressed in the Plan update. Discussion at the TAC meeting largely reiterated the issue topics and resources noted in the responses to the Plan update notification and those noted during the member city and partner staff interviews.

Issues specifically noted and discussed by the TAC include:

- Chloride in groundwater
- Groundwater use and overall sustainability
- Keller Lake nutrient impairment
- Protection of existing water quality in Lac Lavon
- Increasing stormwater best management practice maintenance needs
- City monitoring and management of invasive species
- Opportunities for education and resident engagement

2.4 Online Survey Results

The BDWMO Commissioners hosted an online survey from February 2021 through May 2021. Eighty-one participants took the online survey. Question 5 of the survey specifically asked participants to identify if they were concerned about 14 water and natural resource issues (e.g., pollutant loading) and to identify additional issues of concern. Issues identified as a concern by the greatest percentage of survey respondents include:

- Pollutants like road salt, fertilizer and heavy metals entering surface water or groundwater (identified by 91% of respondents as a concern)
- Amount of trash in or around the water body (90% of respondents)
- Aquatic invasive species (79% of respondents)
- Abundance and diversity of wildlife (72% of respondents)
- Sustainability of groundwater supplies (67% of respondents)

Open-ended responses to other survey questions further demonstrated common interests in protecting and improving the ecological health and functions of local water and natural resources (e.g., wildlife habitat) as well as the community benefits they provide (e.g., recreation, public health, aesthetics).

2.5 Public Kickoff Meeting

The BDWMO Commissioners hosted a public kickoff meeting consistent with Minnesota Rules 8410.0045 on April 21, 2021. Barr presented Information on prior engagement and issue identification activities at the public meeting. No new issues were identified at the public meeting.

3.0 Resource Prioritization

There are many waterbodies located within the BDWMO. We recommend that the Commissioners prioritize resources of local significance to leverage the funding and staff capacity of the BDWMO more effectively. In the 2012 Plan, prioritization included the identification of five strategic waterbodies.

3.1 Strategic Waterbodies

Strategic waterbodies (as defined in the 2012 Plan) are waterbodies of broad watershed significance that are important to a larger population than just the municipalities in which they are located. For the 2012 Plan, waterbodies were required to meet four of the following five criteria to be classified as “strategic”:

- Major subwatershed includes more than one city (i.e., intercommunity drainage area)
- Important recreational resource (i.e., swimming, boating, or adjacent park) or wildlife/natural resource
- Discharges to a downstream resource of significance (e.g., Minnesota River)
- Surface area of at least 50 acres
- Average or better water quality (grade of “C” or better based on three years of CAMP water quality grades)

Table 1 presents the criteria to define strategic waterbodies from the 2012 Plan as applied to several BDWMO waterbodies. Note that Table 1 presents the water quality criterion as evaluated in the 2012 Plan and also re-evaluated using more recent data (i.e., 2017-2019 CAMP data). In the 2012 Plan, waterbodies meeting 4 of the 5 criteria were classified as strategic waterbodies. Application of the 2012 strategic waterbody criteria updated for recent water quality results in the same strategic waterbodies classification as when the 2012 data was used.

Presently, the BDWMO takes a lead role in managing the strategic waterbodies while the member cities are primarily responsible for managing non-strategic lakes, ponds, and wetlands in the BDWMO, including Sunset Pond, Earley Lake, Lee Lake, Wood Pond and Twin Lake.

We recommend that Commissioners consider and revise, as needed, the criteria to establish strategic waterbodies. For example, we recommend eliminating the water quality criterion, as both high quality waters (e.g., Lac Lavon) and impaired waters (e.g., Keller Lake) were identified as priorities by stakeholder engagement efforts. Possible criteria to consider include:

- Waterbody size (e.g., greater than 50 acres)
- Public access or presence of adjacent parks/public land/natural areas

- Intercommunity drainage area (total watershed, direct watershed, or “major” watershed – see Figure A-2 of draft Land and Water resources inventory)

We recommend avoiding criteria based on subjective measures such as “recreational significance” or “ecological significance” in favor of more objective criteria that may achieve the same classifications. The commissioners may also consider using some criteria as “deal-breakers” and others as secondary criteria. For example: “strategic waterbodies must be 50 acres and size and meet one of the following additional criteria...”

Table 1 Strategic Waterbody Criteria (updated with recent water quality results)

Waterbody (bold indicates Strategic Waterbody based on existing criteria)	Criteria to be classified as BDWMO Strategic Waterbody (2012)					Has average or higher water quality (2017-2019) ⁴
	Major sub-watershed includes multiple cities	Important regional resource for recreation ¹ , or wildlife/natural resources	Directly discharges into a significant downstream resource ²	Surface area at least 50 acres	Has average or higher water quality (2012 Plan) ³	
Crystal Lake (19-0027)	X	X		X	Yes (B-C-C)	Yes (B-B-C)
Keller Lake (19-0025)	X	X	X	X	No (D-D-F)	No (C-D-C)
Kingsley Lake (19-0030)		X	X	X ⁵	Yes (A-A-A)	Yes (A-A-A)
Lac Lavon	X	X		X	Yes (A-A-A)	Yes (A-A-A)
Orchard Lake (19-0031)	X ⁶	X		X	Yes (B-A-B)	Yes (A-A-A)
Sunset Pond	-- ⁷	X		X	Yes (D-A-B)	Yes (B-NA-NA)
Earley Lake (19-0033)		X			Yes (C-B-C)	Yes (NA-NA-B)
Horseshoe Lake (19-0032)	X				Unknown	Unknown (NA-NA-NA)
Lee Lake (19-0029)			X		Yes (A-A-A)	Yes (C-C-B)
Twin Lakes (19-0028)		X			Yes (C-B-C)	Yes (B-B-B)
Wetland 19-0381 (CamRam)		X		X	Unknown	Unknown (NA-NA-NA)
Wood Lake (19-0024)		X		X	Yes (C-C-C)	Yes (C-C-B)

Note(s):

- (1) Recreational factors include swimming, boating, or adjacent regional park
- (2) Significant downstream resources include Minnesota River, trout streams, or others identified as significant
- (3) Based on average of “C” or better from CAMP monitoring as reported in the 2012 Plan
- (4) Based on average of “C” or better from 2017, 2018, and 2019 CAMP monitoring letter grades
- (5) Including wetland areas around lake
- (6) Tributary watershed to Orchard Lake includes portion of Credit River Township (outside of jurisdictional boundary)
- (7) Only receives a very minor amount of runoff from the City of Savage

A table (Table 1-5 from the draft Land and Water Resources Inventory) containing select waterbody characteristics is attached to this memorandum to inform potential strategic waterbody criteria. In

considering strategic waterbodies, note that respondents to the online survey also identified the following lakes as resources of concern in addition to all of the existing strategic waterbodies: Sunset Pond, Earley Lake, and Lee Lake.

3.2 Other Priority Resources

In addition to a determination of priority waterbodies, the Commissioners may choose to prioritize other resources for emphasis during Plan implementation, such as wetlands and/or upland areas. The 2012 Plan did not specifically identify any non-lake resources as priority resources.

Participants in the online survey generally identified wetlands, ponds, and shoreline areas as important but did not identify specific resources. Several survey respondents identified the Minnesota River as an important resource despite its location downstream of the BDWMO's jurisdictional boundary. TAC discussion did not specifically identify any non-lake priority areas; city staff noted that many natural areas of high value are associated with city parks. **We recommend that Commissioners consider whether additional resources or areas be identified as a priority for BDWMO implementation.**

4.0 Recommendations for Issue Prioritization

The Commissioners hold the final authority to establish priority issues and resources for the 2022 BDWMO Plan. The stakeholder engagement activities summarized in this memorandum and documented in its attachments may inform those decisions. Based on the information gathered to date and the past and present operations of the BDWMO, we recommend the Commissioners consider the following issue and prioritization scheme as a basis for discussion:

Highest Priority Issues:

- Water Quality, including
 - Stormwater runoff quality
 - In-lake water quality
 - Impairments
- Ecological Health, including:
 - Habitat quality
 - Invasive species management
- Groundwater management, including
 - Pollution prevention
 - Conservation and sustainability
- Education and Engagement

Lower priority issues:

- Flooding and water levels
- Wetland management
- Upland/natural area management

5.0 Attachments

- *2022 Watershed Management Plan Update – Partner interview summary* (memorandum from Barr Engineering Co. dated October 13, 2020)

To: Black Dog Watershed Management Organization (BDWMO) Commissioners
From: Greg Williams, PE, Barr Engineering Co.
Subject: Summary of issue identification activities to inform BDWMO Watershed Management Plan update
Date: June 8, 2021
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- *Summary of Responses to Notification of 2022 BDWMO Plan Update (to date)* (memorandum from Barr Engineering Co. dated October 13, 2020)
- *Results of the BDWMO Watershed Management Plan update resident survey* (memorandum from Barr Engineering Co. dated June 4, 2021)
- Table 1-5 Summary of BDWMO PWI and Physical Characteristics (from draft Land and Water Resources Inventory section of the 2022 BDWMO Plan)



Memorandum

To: Commissioners, Black Dog Watershed Management Organization (BDWMO)
From: Karen Chandler and Greg Williams
Subject: 2022 Watershed Management Plan Update – Partner interview summary
Date: October 13, 2020
Project: 23190374.20 PLAN

At the June 17, 2020 BDMWO Commission meeting, the Commissioners authorized Barr Engineering Co. (Barr) staff to interview staff of BDWMO member cities and partners. The purpose of the interviews is to inform Plan development by better understanding the value of BDWMO services, primary issues facing BDWMO partners, and opportunities to improve working relationships. Barr staff contacted the following individuals:

- Samantha Berger (City of Apple Valley) – interviewed on September 16, 2020
- Jessica Schaum (City of Apple Valley) – interviewed on September 16, 2020
- Eric Macbeth (City of Eagan) – interviewed on September 21, 2020
- Ann Messerschmidt (City of Lakeville) – interviewed on September 23, 2020
- Mac Cafferty (City of Lakeville) – interviewed on September 23, 2020
- Caleb Ashling (City of Burnsville) – interviewed on September 24, 2020
- Jill Trescott (Dakota County) – interviewed on October 7, 2020
- Daryl Jacobson (City of Burnsville) – interview not completed
- Lindsey Albright (Dakota SWCD) – deferred to Brian Watson (Dakota SWCD) – interview not completed

The following memorandum summarizes the interviews and is organized by interview question (**bold text**). Responses are paraphrased for summary purposes and may not be attributed to individual interviewees. We recommend that this summary be provided to interview participants to confirm the accuracy and completeness of the responses. Major themes are summarized at the end.

Requested BDWMO Commission action:

1. Review the summarized interview responses and be prepared to discuss highlights.
2. Authorize distribution of interview summary to participants for review.

Interview Response Summary

1. **With regard to BDWMO programs and services (e.g., water quality monitoring, habitat monitoring, technical assistance):**
 - **Which services do you find the most helpful/useful (e.g., monitoring, education, capital improvements, cost-share grant assistance, forum for intercommunity issues)?**

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Subject: 2022 Watershed Management Plan Update – Partner interview summary
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- BDWMO member cities see value in small-scale and large-scale financial assistance from the BDWMO. This includes funding for Landscaping for Clean Water, studies and investigations, as well as capital projects.
- Water quality monitoring is also useful, but opinions were mixed on how much more value it adds than CAMP (Met Council) water quality monitoring.

• **Overall, would you prefer the BDWMO to do more or less? What would you like to see the BDWMO do more or less of?**

- The habitat monitoring, while very detailed, lacks practical usefulness. Greater value could be derived from habitat monitoring if the deliverable was more accessible and actionable (e.g., handouts for shoreline landowners in critical areas, or list of prioritized improvements).
- Member cities saw an opportunity for more resident outreach and communication from the BDWMO. This could include more branded educational materials, targeted mailings, sponsored events, and other activities that make residents more connected to water resources and more aware of the BDWMO.
- Member cities see value in expanding financial support for Landscaping for Clean Water, Adopt-a-drain, or similar programs. Implementing a resident cost-share program could increase outreach.
- Member cities see an opportunity for more educational program support. City staff are very busy, and see value in leveraging BDWMO volunteers, staff, or consultants to host or participate in interactive education. Activities could include clean-up days, storm drain stenciling, etc. Providing educational materials is useful, but cities are more limited by staff time.

2. What education and public engagement activities performed by the BDWMO are the most beneficial? What additional or expanded education or public engagement services would you like to see the BDWMO perform?

- Support for Landscaping for Clean Water is the most beneficial educational service (see also response to question 1).

What additional or expanded education or public engagement services would you like to see the BDWMO perform?

- See also response to question 1.
- Ideas for expanded education and engagement activities include
 - Targeted mailings in coordination with City communication efforts (e.g., mailing to lakeshore residents)
 - Education materials (e.g., fact sheets) that could be provided to cities and distributed through City social media and other channels. Cities could release pieces of annual report over time, tailored to individual cities.
 - Participating in (or organizing) watershed or lake group clean-up days
 - Attendance/participation at public events (e.g., home and garden show)

3. Are there practices or programs implemented by other watershed management organizations/watershed districts that you think should be implemented in the BDWMO?

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- Other WMOs are involved in Master Water Stewards. It was suggested that the BDWMO explore whether this program could increase BDWMO volunteer capacity (Eagan has had mixed results).
- VLAWMO allows residents to check out different equipment, educational materials, and games to promote resident understanding of water resource issues.
- Member cities suggested greater use of social media and branding to increase awareness of the BDWMO.
- With little staff capacity, the BDWMO could create boards or displays that summarize the organization that could be brought to City (or other partner) events.
- VRWJPO has been successful in pursuing larger grants which are distributed to Cities to complete the project. The BDWMO would apply for and manage the grant while cities would manage design, construction.
- Other WMOs employ or contract with an education coordinator to carryout education and engagement activities.

4. What are your organization's primary concerns regarding water quality, such as:

- **Water quality of specific water bodies (Keller and Lac Lavoie)**
 - **Pollutant loading hot spots**
- Getting impaired waters de-listed is a priority.
 - Member cities identified a focus on water quality protection, as current water quality is fairly good.
 - Multiple member cities noted aquatic invasive species control as a water quality concern (e.g., Keller Lake, Crystal Lake).
 - Salt reduction was noted as a priority.
 - Member cities noted that significant water quality improvement needs are currently few.
 - Additional resources for private water quality BMP management was noted as an area of city focus.
 - Interviewees wondered if there was a way for the BDWMO to assist cities with ongoing monitoring of BMP practices (e.g., iron-filtration trenches, rain gardens, detention basin systems). Cities will be installing more and more complicated practices and tracking performance is overwhelming.

5. What are your organization's primary concerns regarding water quantity or flooding, such as:

- **Flooding at specific locations**
 - **Excessive flow rates and/or erosion**
 - **High or low water levels**
 - **Structures in the floodplain**
- Eagan is performing city-wide hydrologic and hydraulic modeling that may identify specific issues, but presently no issues within the BDWMO are identified.
 - The oldest parts of Apple Valley are located in the BDWMO. Storm sewers will be upgraded with retrofits over time, but the city is unaware of significant issues.
 - The City of Lakeville is aware of localized flooding issues upstream of Crystal Lake in the Shady Oak Park area and upstream of Lee Lake. These issues are the result of ponds and conveyances designed with older design criteria. The City is conducting a feasibility study to

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address these issues. Lakeville has performed some pond improvements, with more work planned.

- There are no specific flooding issues in Burnsville. Generally, there is concern about increased erosion due to increased precipitation intensity. Burnsville has performed some modeling of future precipitation impacts on water surface elevations in Crystal and Keller Lakes.

6. What are your organization's primary concerns regarding wetlands, habitat, or natural areas? What role, if any, would you like to see the BDWMO assume in managing, protecting, or restoring these resources?

- Member cities generally seek to maintain and protect wetlands, but there are generally few resources for enhancement or restoration. Cities may be able to identify opportunities if additional resources were available.
- Member cities have an idea of aquatic invasive species present in lakes, but do not know the extent of AIS present in wetlands.
- While cities generally perform AIS surveys and management actions, interviewees wondered if there is a role for the BDWMO for more regular assessment and/or management of AIS in strategic waterbodies.
- Some cities are investigating and managing terrestrial invasive species.
- Member cities noted that a useful part of habitat monitoring is noting areas where city can improve buffers; additional detail may assist in planning City actions.

7. What are your organization's primary concerns regarding stormwater management, such as:

- **Inspection, maintenance, and repair of your stormwater system**
- **Future capacity issues resulting from growth or climate change**
- **Implementation or enforcement of local stormwater controls**
- **Stormwater utility and/or other funding mechanisms**
- **Regulatory compliance (e.g., MS4 permit)**
- Member cities noted all of the above examples as concerns
- Member cities wondered if the BDWMO could help fund stormwater management actions (e.g., pond cleanouts) in any way. Member cities noted that high cost of addressing infrastructure needs may be prohibitive.

8. What are your organization's primary concerns regarding groundwater resources, such as:

- **High or low groundwater levels**
- **Adequacy for drinking water supply**
- **Groundwater/surface water interaction issues**
- **Well-head protection and groundwater quality**
- **Effects of infiltration practices on groundwater**
- Member cities cited no major concerns with respect to groundwater.
- Member cities noted that additional education about, and promotion of, groundwater conservation practices would be beneficial.
- Dakota County anticipates increased coordination with partners like the BDWMO in the implementation of the new Groundwater Plan and noted chloride as an area of emphasis

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9. How would you characterize your organization's working relationship with the BDWMO?

- **Are there any barriers limiting the effectiveness of this relationship?**
- **What changes would you recommend to improve the working relationship between the WMO and your organization?**
- Interviewees universally noted the good working relationship between the BDWMO and their organization; several appreciated the informal, easy-going nature of the relationship.
- Member city staff benefit by attending the BDWMO Commissioners' meetings and recommended that there be a standing agenda item for staff to share member city updates.
- No interviewees identified specific barriers to collaboration.

10. Is there anything else you would like to share with the BDWMO or would like the BDWMO to consider during the planning process?

- Interviewees had the following recommendations:
 - Prioritize projects and activities so there is clear guidance during staff/Commissioner turnover and/or changes in funding/capacity
 - Include "placeholder" projects to secure funding for opportunities that are not yet identified but may occur during the life of the Plan.
 - Print posters or signage and post them at natural areas where people might see them while using the resources.
 - Coordinate with member cities to leverage their social media presence.

Major Themes

Barr identified the following themes among the interview responses:

- Partners are generally happy with their working relationships with the BDWMO.
- There are few significant water quality, flooding, or natural area issues that need to be addressed in the next Plan – although AIS management was noted as a recurring issue.
- Partners may achieve additional water and natural resource goals with additional capacity/assistance from the BDWMO.
- Partners see opportunities for an increased role of the BDWMO with respect to assisting with project funding (grants, cost-share programs), education, public engagement, and resident water resource programming.



Memorandum

To: Commissioners, Black Dog Watershed Management Organization (BDWMO)
From: Karen Chandler and Greg Williams
Subject: Summary of Responses to Notification of 2022 BDWMO Plan Update (to date)
Date: October 13, 2020
Project: 23190374-2020-PLAN
c: Daryl Jacobson, BDWMO Administrator

On behalf of the Black Dog Watershed Management Organization (BDWMO) and consistent with Minnesota Rules 8410.0045, Barr Engineering Co. (Barr) distributed a notice of the Plan update on August 6, 2020. The notice was distributed to additional parties on August 20, 2020. The notice was sent to Plan review authorities including the member cities, Dakota County, Dakota Soil and Water Conservation District (SWCD), adjacent watershed management organizations, and state agencies. The notice requested that Plan review authorities provide the following information by October 19, 2020:

- Priority issues and expectations for BDWMO involvement in these issues
- Summaries of relevant water management goals]
- Pertinent water resources information

As of October 13, 2020, the following organizations responded to the notification letter:

- Dakota County
- Dakota Soil and Water Conservation District (SWCD)
- Minnesota Department of Natural Resources (MDNR)
- Minnesota Board of Water and Soil Resources (BWSR)
- Metropolitan Council

The comments provided in response to the Plan notification letter are summarized in this memorandum; complete materials provided in response to the notice of Plan update are attached. The responses received thus far identify both general and specific issues related to resources as well as process. Some items noted by multiple responding entities include:

- An emphasis on measurable goals and assessment of progress
- Increased focus on groundwater sustainability
- Implementation actions that are prioritized and targeted to address issues

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Dakota County

The Dakota County letter noted that the updated County Groundwater Plan (to be finalized by the end of 2021) contains a list of prioritized strategies to address groundwater issues. Issues and strategies for which the BDWMO may support or cooperate include:

- Provide feedback on an Agriculture Chemical Reduction Effort (ACRE)
- Consider development of a local chloride reduction plan
- Consider participation in a County-wide water supply/conservation initiative and partnering with the County on water conservation programs and projects.
- Considering partnering with the County on water reuse projects.
- Consider any updates to wetland protection and management plans, as needed. Consider partnering with the County for wetland retention and restoration activities as well as partnerships to improve groundwater quality that may impact wetlands, fens, or trout streams.
- Consider partnering with the County to expand groundwater conservation and pollution prevention education and outreach efforts.

Dakota County also noted that changes to BDWMO standards and policies may be needed to support the following goals and strategies from the County Groundwater Plan related to:

- Reducing agricultural contamination
- Preventing groundwater pollution from stormwater
- Preventing pollution by minimizing impacts of aggregate mining on groundwater quality
- Supporting alternative water supplies

Dakota County identified specific wildlife conservation considerations addressing herptiles, birds, insects and vegetation. Dakota County requested the BDWMO consider supporting the following recommendations in the Plan update.

- Additional native plantings – Promote developmental design criteria that limits turfgrass installations and supports establishments of small prairies or pollinator plantings
- Invasive species control – Support organizations and agencies in the identification and eradication of invasive species (both terrestrial and aquatic)
- Stormwater treatment BMPs with pollinator plantings – Consider incentivizing stormwater best management practices that incorporate native plantings to support wildlife habitat

(Note: the BDWMO discussed the draft County Groundwater Plan at their July 15, 2020 meeting; see July 7, 2020 memo from Barr for more information.)

Dakota Soil and Water Conservation District

Dakota SWCD identified the following three priority issues for the BDWMO Plan update:

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- Identify those water bodies that are “nearly or barely” impaired and focus on keeping them from being impaired or work toward getting them delisted
- Reduce peak flow and volume of surface water runoff in areas experiencing flooding
- Seek implementation activities that provide multiple benefits to water resources

Dakota SWCD noted the State emphasis on the use of Prioritized, Targeted and Measurable (PTM) criteria for the development of Plan goals and objectives. Dakota SWCD recommends that the BDWMO and SWCD collaborate to develop a PTM approach to goals and objectives that may be useful for both organizations (noting that consultation with BWSR may be required).

Dakota SWCD identified the following potential collaboration ideas for implementation:

- Administering and implementing grants
- Education and outreach
- Sub-watershed assessments or feasibility studies
- Technical assistance and project implementation
- Water monitoring

Minnesota Department of Natural Resources

The MDNR noted several general watershed management strategies that it recommends including in the Plan update; the strategies noted are generally consistent with existing BDWMO policy. The MDNR also recommends using its Watershed Health Assessment Framework approach to address resource issues; this framework considers the interdependence of hydrology, biology, connectivity, geomorphology, and water quality.

The MDNR response recommends specific objectives and actions to be included in the Plan to address:

- Groundwater sustainability
- Stormwater management
- Septic systems
- Chloride
- In-lake water quality treatment

Of the specific strategies identified, those related to groundwater and chloride represent a new emphasis relative to the 2012 BDWMO Plan. Strategies related to stormwater, septic systems, and in-lake treatment are generally aligned with current BDWMO and city practice, while providing some additional considerations for in-lake treatment.

The MDNR further provides additional natural resource information and links addressing invasive species, rare animals and plant communities, fens, and forest management.

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Minnesota Board of Water and Soil Resources

The BWSR response to the notification letter noted the importance of a coordinated and collaborative planning process that engages local governments and other stakeholders. Regarding Plan content, BWSR emphasized:

- Identifying priority issues,
- Data analysis with trends
- Long- and short-term measurable goals
- Implementation that is targeted and frequently updated

BWSR also cited the following specific recommendations included in the Black Dog WMO's 2017 Level II Performance Review and Assistance Program (PRAP) Summary Report:

- Provide easily accessible water quality data and trends
- Evaluate progress for the implementation of Plan actions a minimum of every two years

With respect to establishing goals and evaluating progress towards goals, BWSR noted that Minnesota Rule 8410.0080 Subp. 1 requires specific measurable goals that address priority Plan issues. Plan goals must contain detail sufficient to provide the direction regarding what the goals should accomplish, provide direction to the WMO's Commission, and allow for the success or failure of the goals to be measured. Goals should identify the extent of progress that will be made to address identified priority issues by the end of the 10-year Plan implementation.

BWSR noted that the Plan update must include the following implementation actions:

- Prioritized implementation program – The implementation program should be clear in identifying what implementation actions the WMO will accomplish in the next ten years regardless of whether or not any new grant funding is received. The implementation program should be both realistic and aspirational.
- Include a procedure to evaluate progress for implementation activities at least every two years.
- Define the process for evaluating implementation of local water plans.
- Define who is responsible for inspection, operation and maintenance of stormwater facilities.
- Define any existing or planned incentive type programs

Metropolitan Council

The Metropolitan Council response to the notification letter references the Metropolitan Council's *Thrive MSP 2040 Regional Development Framework* and the *2040 Water Resources Policy Plan* as guidance documents to inform the BDWMO Plan update. The updated BDWMO plan should include policies related to the protection of area water resources with consideration for the strategies included in the *2040 Water Resources Policy Plan*, with the end goal of water sustainability. The Metropolitan Council also referenced

To: Commissioners, Black Dog Watershed Management Organization (BDWMO)
From: Karen Chandler and Greg Williams
Subject: Summary of Responses to Notification of 2022 BDWMO Plan Update (to date)
Date: October 13, 2020
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the need for quantifiable and measurable goals in the BDWMO Plan. The Metropolitan Council noted that the Plan update should, at a minimum, address the following issues:

1. Any problems with lake and stream water quality and quantity, including information on impaired waters in the watershed and the Organization's role in addressing the impairments,
2. Flooding issues in the watershed,
3. Storm water rate control issues in the watershed,
4. Impacts of water management on the recreation opportunities,
5. Impact of soil erosion problems on water quantity and quality,
6. The general impact of land use practices on water quantity and quality,
7. Policies and strategies related to monitoring of area water resources,
8. Policies and strategies related to use of best management practices,
9. Issues concerning the interaction of surface water and groundwater in the watershed,
10. Erosion and sediment control standards and requirements,
11. Volume reduction goals at least as restrictive as requirements in the NPDES construction general permit,
12. Capital improvement plan with itemized list of actions, estimated costs, and timeline, and,
13. Specifics on long-term maintenance of projects identified in the capital improvement plan, including identification of entities responsible for funding and conducting maintenance, as well as how long-term maintenance will be documented.

The Metropolitan Council noted that it maintains historical water quality data for several waterbodies within the BDMWO and provided a link to its online water monitoring database.

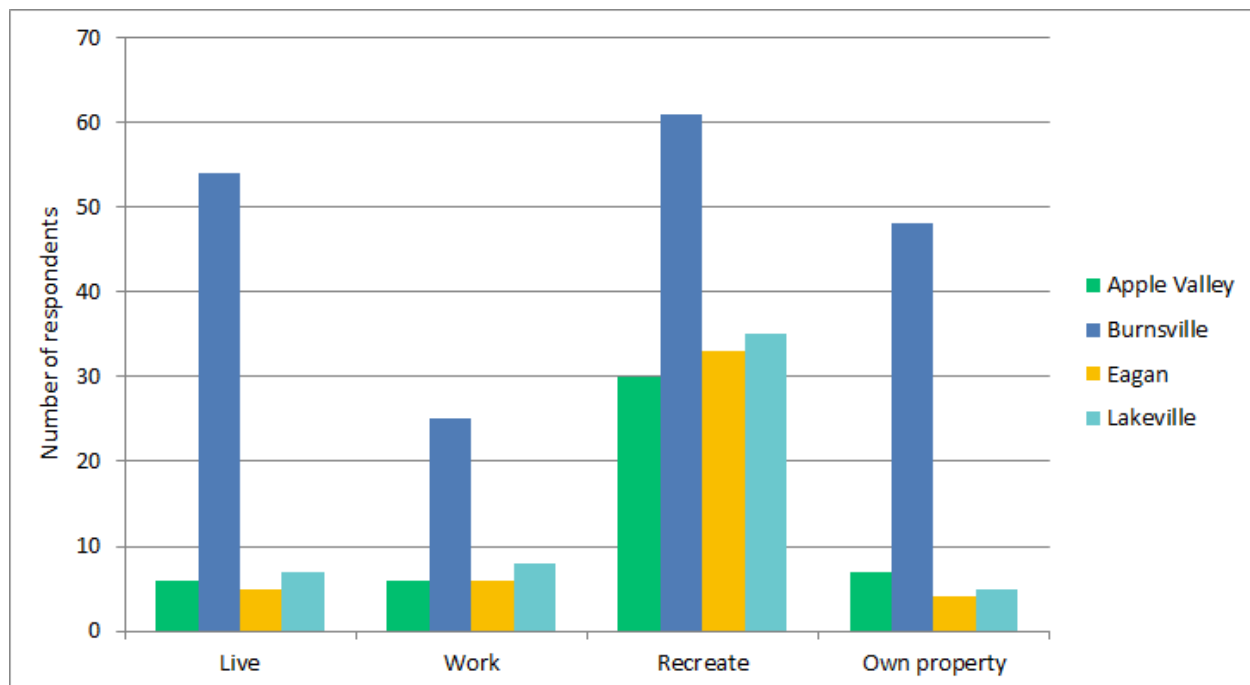


Memorandum

To: Black Dog Watershed Management Organization (BDWMO) Commissioners
From: Greg Williams, PE, Barr Engineering Co.
Subject: Results of the BDWMO Watershed Management Plan update resident survey
Date: June 8, 2021
Project: 23191455
c: Daryl Jacobson, BDWMO Administrator

The Black Dog Watershed Management Organization (BDWMO) commissioners are in the process of updating the BDWMO Watershed Management Plan (Plan). The Plan update includes several stakeholder engagement activities to garner input from cities, partners, and residents. As part of this effort, an online survey was hosted from February 2021 through May 2021 and completed by 81 participants. This memorandum summarizes the results of the online survey.

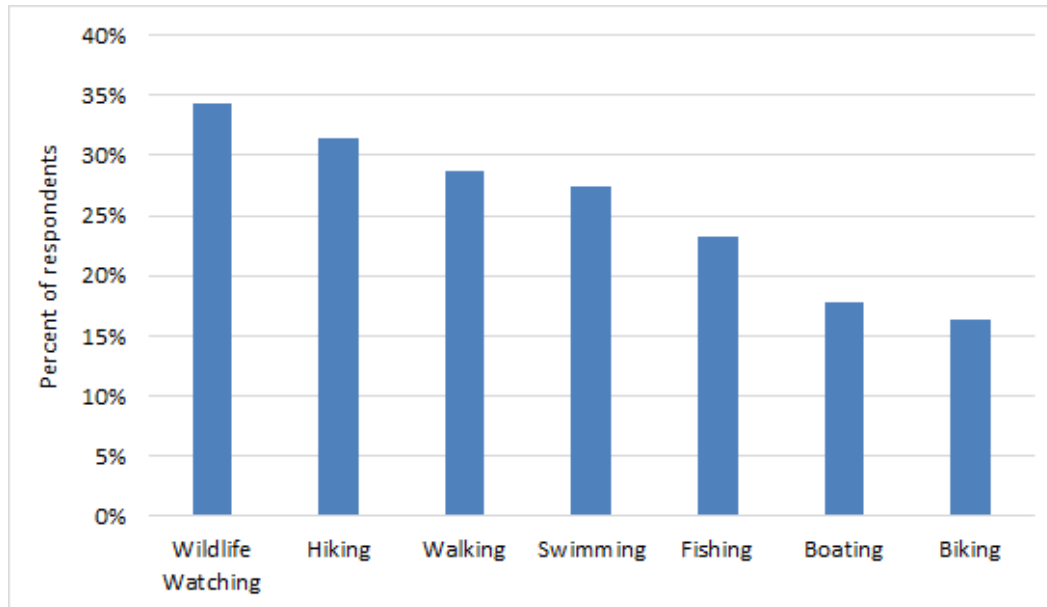
Question 1 – Do you live, work, recreate, or own property within the Black Dog WMO?



Most of the survey respondents (55 of 81, or 68%) live in Burnsville, with the remainder split about equally among the other member cities. This is approximately proportional to the breakdown of land area within the watershed. Property ownership follows a similar pattern. Despite most respondents living in Burnsville, about half of the survey respondents recreate in each of the BDWMO member cities (respondents could select all that apply).

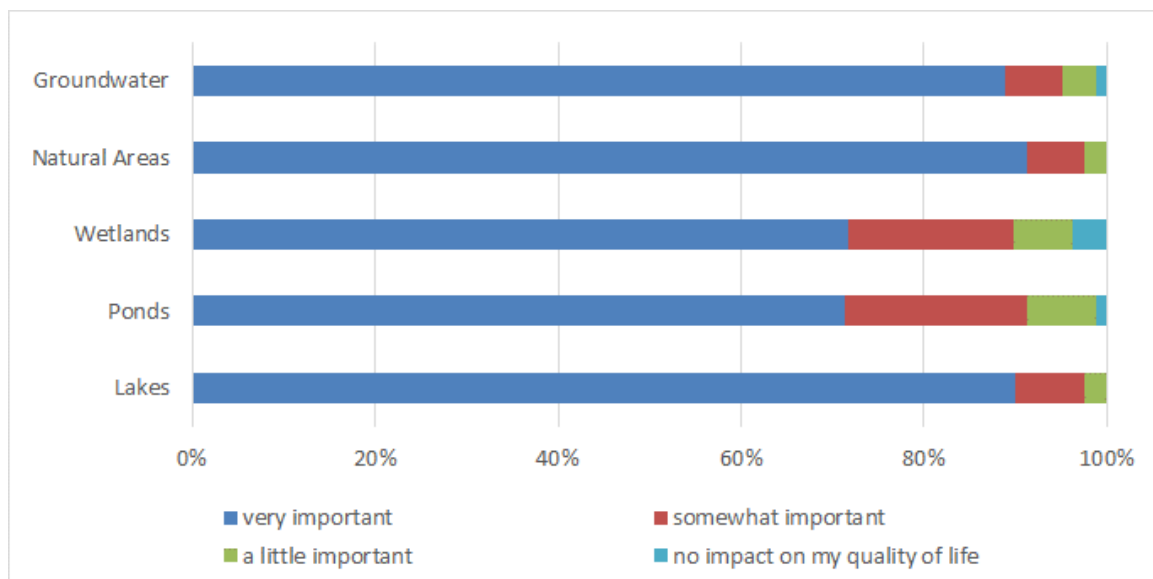
To: Black Dog Watershed Management Organization (BDWMO) Commissioners
From: Greg Williams, PE, Barr Engineering Co.
Subject: Results of the BDWMO Watershed Management Plan update resident survey
Date: June 8, 2021
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Question 2 – How do you use the water and natural resources within the Black Dog WMO? (open ended question)



Question 2 asked survey respondents to identify how they use the water and natural resources within the Black Dog WMO. Of 73 open ended responses (90% of survey respondents), 34% said some form of wildlife watching. About 30% of respondents use the resources for hiking or walking. About 28% percent of survey respondents answered that they use the lakes for swimming. Fishing, boating, and biking were also popular responses identified by at least 15% of respondents. Other, less frequently cited responses include picnicking, animal catch and release, and exploring native plants.

Question 3 – How important are each of the following resources to your quality of life in your community?



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From: Greg Williams, PE, Barr Engineering Co.
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Question 3 asked respondents to select how important each of five natural resources are from a list of four levels of importance. Survey responses indicated that most residents consider *all* of the identified resources to be “very important” to quality of life. The results for groundwater, natural areas, and lakes are similar. Wetlands and ponds were viewed as “very important” by fewer survey respondents. Only one survey respondent stated that groundwater or ponds had no impact on quality of life, and three survey respondents stated that wetlands had no impact on quality of life.

Question 4 – How does the health of surface water, groundwater, and natural areas in the Black Dog WMO affect you, your friends, or your community? (open ended question)

Question 4 asked respondents to share how natural resource health affects them in an open-ended question format. Approximately 70% of survey takers answered this question. The level of detail varied among responses, but common themes were apparent.

- 50% of respondents noted that poor water quality negatively impacts the **health of the ecosystem**, including impacts to fish, plants, and other wildlife.
- 25% of respondents noted the connection between natural resource health and **recreation opportunities** (cited activities included swimming, fishing, and walking in nature)
- 25% of respondents identified a connection between **drinking water** and the health of water resources (responses included references to groundwater as well as surface water).
- 23% of respondents made a connection between the health of surface water, groundwater, and natural areas and overall **public health** within the community. Several responses specifically noted that the health of natural resources positively impacts mental health and provides stress relief opportunities.

Other ways that the health of surface water, groundwater, and natural areas impact survey respondents include impacts to resource aesthetics, property values, civic/neighborhood pride, and overall quality of life.

“The health of these resources directly impacts our quality of life and overall health. We live in a beautiful community which is graced with many natural resources which help to sustain a more peaceful state of mind and body.”

Question 5 – What concerns you about the condition of the surface water, groundwater, and natural resources in the Black Dog WMO?

Question 5 asked survey respondents to identify whether they were concerned or not concerned about each of 14 possible issues affecting surface water, groundwater, and natural resources. The question also included an option to identify “other” concerns not listed. Issues identified as a concern by the greatest number of survey respondents include:

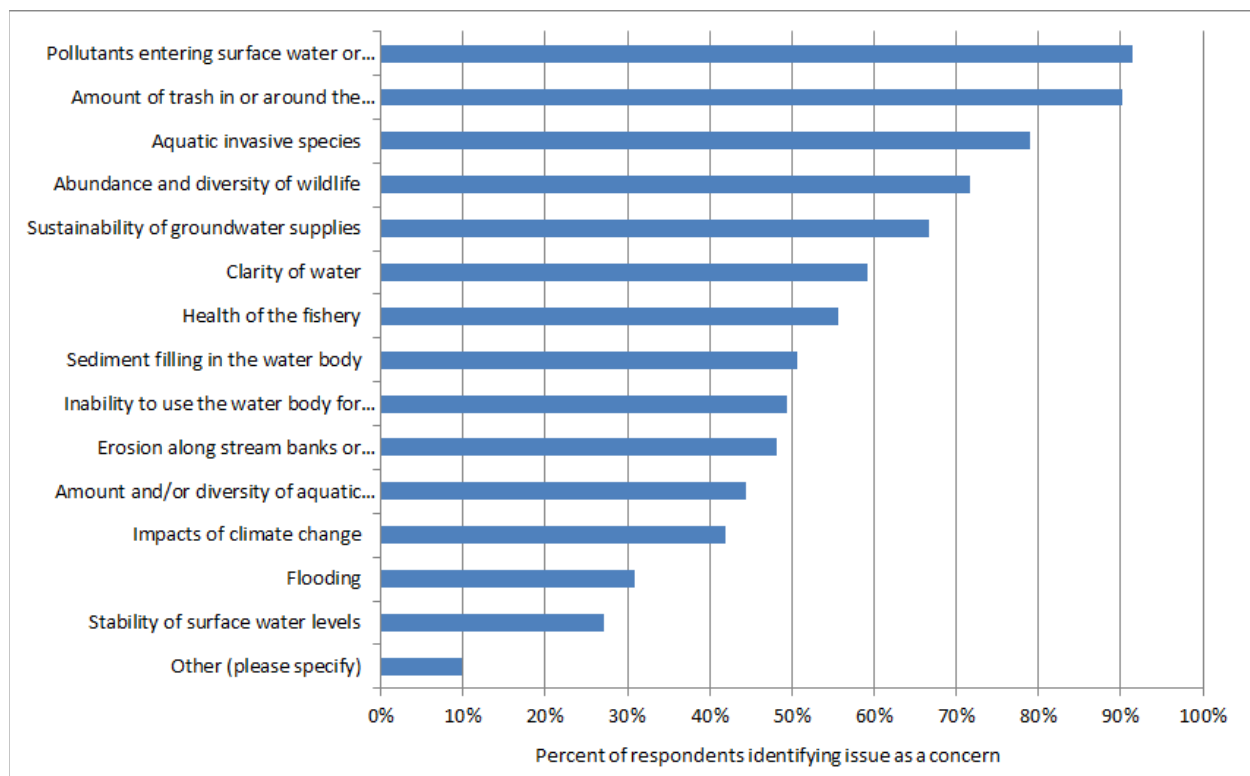
- Pollutants like road salt, fertilizer and heavy metals entering surface water or groundwater (identified by 91% of respondents as a concern)

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- Amount of trash in or around the water body (90% of respondents)
- Aquatic invasive species (79% of respondents)
- Abundance and diversity of wildlife (72% of respondents)
- Sustainability of groundwater supplies (67% of respondents)

About 10% of survey respondents identified an “other” concern. Other concerns include:

- Aesthetics
- Nitrates and heavy metals
- Algae blooms
- Drinking water
- Landfill
- Groundwater for irrigation



Question 6 – Are there specific surface water resources or natural areas in the Black Dog WMO you would like to see improved? If so, how?

Over half (62%) of the survey respondents answered “Yes” to the question asking if there were surface water resources or natural areas they would like to see improved. Question 7 further asked survey respondents to specify which resources and how they should be improved; 39 survey respondents provided this information. Some responses were general (e.g., wetlands), others identified specific

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waterbodies or areas (e.g., Crystal Lake), and some responses identified specific issues in specific resources (e.g., algal blooms in Sunset Pond).

Named resources within the Black Dog WMO cited in the responses to question 7 include:

- Sunset Pond (4 responses)
- Crystal Lake (4 responses)
- Lac Lavon (2 responses)
- Earley Lake (2 responses)
- Orchard Lake (2 responses)
- Keller Lake (2 responses)
- Lee Lake (1 response)

Responses also generally identified wetlands, stormwater ponds, and shoreline areas. Three responses referenced the Minnesota River, located downstream of the watershed.

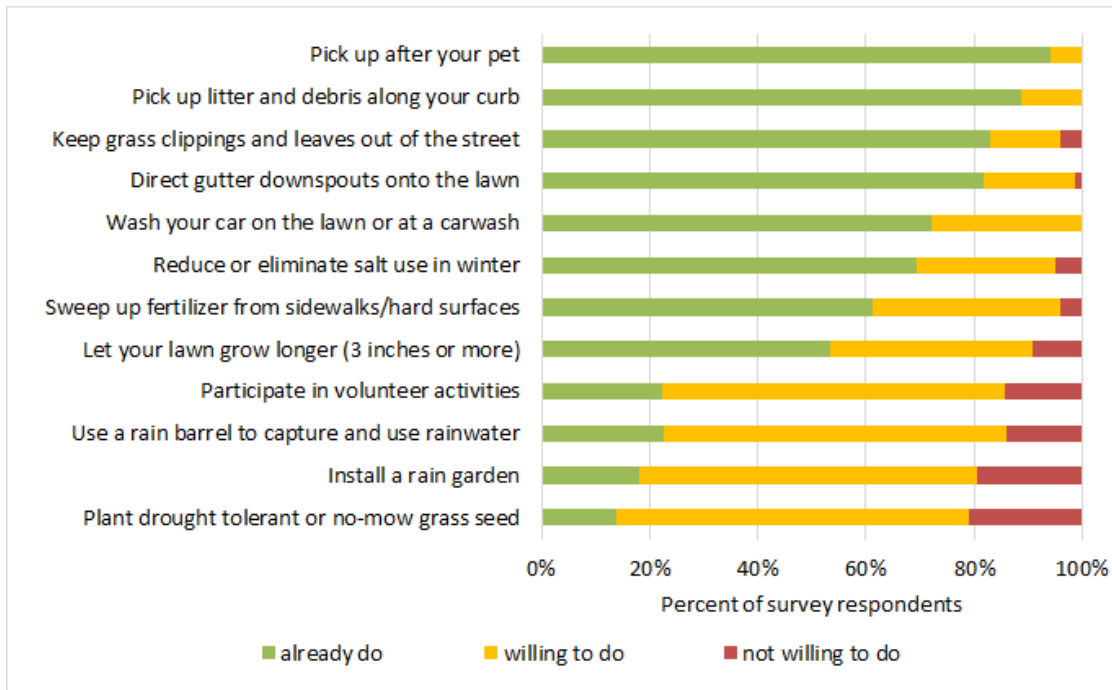
Improvements cited in the open-ended responses to question 7 included:

- Increased water clarity (Crystal Lake, Keller Lake, Orchard Lake)
- Fewer algal blooms (Earley Lake, Crystal Lake, Orchard Lake, Sunset Pond)
- Plant management (Lac Lavon and Earley Lake)
- Reduced/restricted use of salt
- Reduced/restricted use of fertilizer
- Increased/expanded buffers
- Less trash

Question 7 – How willing are you to take the following actions around your home and yard to improve surface water and groundwater quality?

Question 7 asked survey respondents to identify whether they already perform, would be willing to perform, or would not be willing to perform 12 behaviors that contribute to the protection or improvement of surface water and groundwater resources.

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Most survey respondents already perform several simple actions to reduce nutrient loading to natural resources, including picking up after pets, keeping yard waste out of streets, and sweeping up fertilizer. Fewer survey respondents perform actions to retain runoff such as installing a rainwater garden or collecting and reusing rainwater. The survey results indicate that there is broad willingness to perform some of these behaviors, including participating in volunteer activities, and suggests there may be opportunities to leverage community capacity for stewardship during Plan implementation.

Question 7 further asked survey respondents to identify other stewardship behaviors they perform. Examples cited in the open-ended responses include:

- Not fertilizing or applying other products to lawns
- Reducing or eliminating lawn irrigation

Further stakeholder engagement activities should explore the barriers that prevent residents moving from the “willing to do” category to the “already do” category.

Question 8 – Please enter your email address if you would like to receive information about actions you can take to protect and improve water and natural resources

Question 8 asked respondents to provide their contact information if they would like to be contacted with information about actions they can take to protect and improve water and natural resources.

Approximately 85% of survey respondents said they would be interested in receiving this information. These contacts may prove useful in future BDWMO, member city, or other partner education and engagement efforts (e.g., Dakota SWCD Landscaping for Clean Water).

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Conclusions

The responses to the survey indicate that the community places a high value of its local water and natural resources. Responses to the open-ended questions indicate common interests in protecting and improving the ecological health and functions of local water and natural resources, as well as the community benefits they provide (e.g., recreation, public health). The survey indicates that many residents are aware of, and engage in, natural resource stewardship practices and that increased participation is possible. Survey respondents are mostly Burnsville residents, but all member cities are represented.

Table 1-5: Summary of BDWMO PWI and Physical Characteristics

BDWMO Water Body	Municipality	Downstream Receiving Water	MDNR Identification		Physical Characteristics									
			MDNR Public Waters ID Number	PWI Class	Water Area (acre)	Perimeter (mi)	Littoral Area (acre)	Average Depth (feet)	Max Depth (feet)	Direct Watershed Area, including Lake Surface Area (acre)	Total Watershed Area including All Upstream Lakes (acre)	Normal Water Level (ft MSL)	100-Year Flood Elevation (ft MSL)	
Lakes														
Crystal	Burnsville & Lakeville	Minnesota River	19-0027	P	292	5.3	208	10	35	2013	3852	933.5	935.8	
Keller	Burnsville	Minnesota River	19-0025	P	52	1.2	52.0	4.8	8	1447	1447	934.3	938.6	
Orchard	Lakeville	Credit River	19-0031	P	243	4.7	177	10	33	2045	2260	N/A	979.1	
Kingsley	Lakeville	Credit River	19-0030	P	51	3.0	51.0	N/A	10.2	216	216	N/A	982.4	
Lac Lavon	Apple Valley & Burnsville	Minnesota River	19-0446	N/A	60	2.1	39	N/A	32	184	184	Landlocked	933.1	
Sunset Pond	Burnsville	Minnesota River	19-0451	N/A	60.0	2.5	60.0	N/A	10.5	1019	6311	N/A	854.8	
Lee	Lakeville	Minnesota River	19-0029	P	19.0	1.2	19.0	7.0	15	206	206	948.5/ 947.0	951.9	
Earley	Burnsville	Minnesota River	19-0033	P	23.3	1.1	23.3	3.8	7.8	757	5292	905	910.1	
Horseshoe	Lakeville	Credit River	19-0032	P	11.7	0.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Wetlands														
Wood Pond	Burnsville	Minnesota River	19-0024	W	14.0	0.6	14.0	10	14	110	110	1000.9	1003.6	
Twin (South)	Burnsville	Minnesota River	19-0028	W	11.7	1.0	11.7	3.6	11	574	4536	918	920.2	
Twin (North)					5.1		5.1	6.6	12					
Unnamed (Cam Ram Wetland)	Burnsville	Credit River	19-0380	W	51.2	2.3	--	--	--	--	--	--	--	
Unnamed	Burnsville	Minnesota River	19-0113	W	5.6	0.5	--	--	--	--	--	--	--	
Unnamed	Burnsville	Minnesota River	19-0114	W	6.9	0.7	--	--	--	--	--	--	--	
Unnamed	Burnsville	Minnesota River	19-0115	W	4.7	0.5	--	--	--	--	--	--	--	
Unnamed	Burnsville	Minnesota River	19-0116	W	4.3	0.5	--	--	--	--	--	--	--	
Unnamed	Burnsville	Minnesota River	19-0152	W	3.3	0.4	--	--	--	--	--	--	--	
Unnamed	Burnsville	Minnesota River	19-0170	W	3.0	0.3	--	--	--	--	--	--	--	
Unnamed	Burnsville	Minnesota River	19-0171	W	1.0	0.2	--	--	--	--	--	--	--	
Unnamed	Burnsville	Minnesota River	19-0172	W	2.5	0.3	--	--	--	--	--	--	--	
Unnamed	Burnsville	Minnesota River	19-0174	W	2.2	0.2	--	--	--	--	--	--	--	
Unnamed	Burnsville & Eagan	Minnesota River	19-0191	W	8.6	0.8	--	--	--	--	--	--	--	
Unnamed	Burnsville	Minnesota River	19-0192	W	2.5	0.4	--	--	--	--	--	--	--	
Unnamed	Burnsville	Minnesota River	19-0193	W	5.7	0.5	--	--	--	--	--	--	--	
Unnamed	Burnsville	Minnesota River	19-0194	W	2.4	0.3	--	--	--	--	--	--	--	
Unnamed	Burnsville	Minnesota River	19-0195	W	3.4	0.3	--	--	--	--	--	--	--	
Unnamed	Burnsville	Credit River	19-0197	W	0.2	0.1	--	--	--	--	--	--	--	

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			MDNR Public Waters ID Number	PWI Class	Water Area (acre)	Perimeter (mi)	Littoral Area (acre)	Average Depth (feet)	Max Depth (feet)	Direct Watershed Area, including Lake Surface Area (acre)	Total Watershed Area including All Upstream Lakes (acre)	Normal Water Level (ft MSL)	100-Year Flood Elevation (ft MSL)
Unnamed	Burnsville	Minnesota River	19-0210	W	4.2	0.3	--	--	--	--	--	--	--
Unnamed	Burnsville	Minnesota River	19-0211	W	1.2	0.2	--	--	--	--	--	--	--
Unnamed	Burnsville	Minnesota River	19-0359	W	5.7	0.5	--	--	--	--	--	--	--
Unnamed (Goose Lake)	Lakeville	Minnesota River	19-0360	W	5.3	0.4	--	--	--	--	--	--	--
Unnamed	Lakeville	Minnesota River	19-0361	W	3.2	0.3	--	--	--	--	--	--	--
Unnamed	Lakeville	Credit River	19-0362	W	4.9	0.5	--	--	--	--	--	--	--
Unnamed	Lakeville	Credit River	19-0363	W	11.4	0.9	--	--	--	--	--	--	--
Unnamed	Burnsville	Minnesota River	19-0364	W	7.3	0.4	--	--	--	--	--	--	--
Unnamed	Lakeville	Credit River	19-0365	W	2.9	0.3	--	--	--	--	--	--	--
Unnamed	Lakeville	Credit River	19-0369	W	5.8	0.5	--	--	--	--	--	--	--
Unnamed	Lakeville	Credit River	19-0371	W	10.1	1.2	--	--	--	--	--	--	--
Unnamed	Burnsville	Credit River	19-0381	W	2.3	0.2	--	--	--	--	--	--	--
Unnamed	Burnsville	Credit River	19-0382	W	2.2	0.4	--	--	--	--	--	--	--
Unnamed	Lakeville	Credit River	19-0383	W	6.9	0.5	--	--	--	--	--	--	--
Unnamed	Lakeville	Credit River	19-0384	W	2.4	0.4	--	--	--	--	--	--	--
Unnamed	Lakeville	Credit River	19-0385	W	3.3	0.3	--	--	--	--	--	--	--
Unnamed	Lakeville	Credit River	19-0386	W	2.6	0.4	--	--	--	--	--	--	--
Unnamed	Lakeville	Credit River	19-0387	W	11.2	1.3	--	--	--	--	--	--	--
Unnamed	Lakeville	Credit River	19-0388	W	2.7	0.3	--	--	--	--	--	--	--