

Shingle Creek Watershed Management Commission Treasurer's Report

	2022 Budget	March	April	%age YTD	2022 YTD
REVENUE					
Application Fees	20,000	2,500.00		27.50	5,500.00
Member Assessments	363,590			100.00	363,590.00
Interest and Dividends	5,000	111.43		2.99	149.51
Education Reimbursement	33,000			-	-
Rain Garden Workshops	0				-
<i>Transfer to (from) Grants (see following pages)</i>		78,489.00	-		78,489.00
<i>2020 Transfer to (from) Grants (see following pages)</i>					
<i>Transfer to (from) CIPs</i>					-
<i>Transfer to (from) Closed Projects Account</i>					-
TOTAL REVENUE	421,590	81,100.43	-		447,728.51
EXPENSES					
ADMINISTRATION					
Administrative Services	71,000	4,176.95	5,624.37	19.50	13,842.07
Engineering Support	17,000	1,406.95	542.88	25.11	4,267.90
Project Reviews	1,500	96.22	149.61	21.24	318.58
ENGINEERING					
Administration	75,000	17,477.00	5,454.75	30.58	22,931.75
Grant Application Writing	12,000	5,345.00	280.50	46.88	5,625.50
Project Reviews/WCA	43,000	2,538.25	4,395.00	16.12	6,933.25
TMDL 5 Year Reviews	5,000	1,299.25	1,271.00	51.41	2,570.25
LEGAL - Legal Services	5,500	246.00		4.47	246.00
MISCELLANEOUS					
Bookkeeping	8,000	547.40	496.30	20.20	1,615.60
Audit	6,500			-	-
Insurance & Bonding	3,200			-	-
Meeting Expense	5,000			-	-
PROGRAMS					
Stream Monitoring	35,000	1,820.99	1,714.18	10.10	3,535.17
Stream Monitoring (USGS)	4,200			-	-
Lake Monitoring	28,000	493.25	589.00	3.87	1,082.25
Citizen Assisted Lake Monitoring (CAMP)	4,800		865.25	18.03	865.25
Volunteer Wetland Monitoring (WHEP)	2,000			-	-
Volunteer Stream Monitoring (River Watch)	1,000			-	-
Annual Monitoring Report	16,000	9,468.94	4,083.32	84.70	13,552.26
Water Quality Education					
Education Program	16,500	1,856.13	1,806.79	22.34	3,686.37
WMWA General Programs	20,000	572.98	1,054.64	9.77	1,953.85
WMWA Implementation/Watershed Prep	24,500	771.22	23.10	3.24	794.32
Rain Garden Workshops	0				-
Management Plan/Amendments	1,000	67.56	39.00	10.66	106.56
4th Generation Plan		11,841.20	4,374.47		16,215.67
<i>Transfer to (from) Grants (see following pages)</i>		53,036.50	248.00		53,284.50
<i>Transfer to (from) CIPs</i>					-
<i>Transfer to (from) City Cost Share Fund</i>					-
<i>Transfer to (from) Partnership BMP Cost Share Fund</i>					-
<i>Transfer to (from) Closed Projects Account</i>					-
<i>To/From Reserves</i>	15,890				
TOTAL OPERATING EXPENSE	421,590	146,073.95	33,012.16		153,427.10
CASH SUMMARY					
4M Fund Balance at 12/31/21					2,196,273.66
Plus Revenue Received 2022 to date					472,972.89
Minus Claims Approved to Date					(220,318.64)
Minus Claims Presented Current Month					(33,012.16)
Fund Balance		2,448,927.91			2,415,915.75

Shingle Creek Watershed Management Commission Treasurer's Report

Claims Presented	General Ledger Acct No	March	April	Total
Kennedy & Graven				-
Legal - General	52001			
Stantec (formerly Wenck)				25,122.09
General Engineering	51001		5,454.75	
Grant Writing	51005		280.50	
Project Reviews	51002		4,395.00	
TMDL 5-Year Reviews	56011		1,271.00	
4th Generation Plan	51007		4,374.47	
CAMP	56002		865.25	
Stream Monitoring	56004		1,714.18	
Lake Monitoring	56010		589.00	
Education	57008		1,706.37	
Education - WMWA	57009		140.25	
Annual Water Monitoring Report	58002		4,083.32	
Bass/Pomerleau Alum Trmt Grant	70727		124.00	
Crystal Lake Management Plan Grant	70732		124.00	
SRP Channel Filter Project Grant	70738			
Judie Anderson's Secretarial Service				937.49
WMWA General Expense	57009		914.39	
WMWA Educators/WS Prep	57011		23.10	
Judie Anderson's Secretarial Service				6,952.58
Administration	53001		5,624.37	
Project Review Support	53002		149.61	
Bookkeeping / Audit Prep	54002		496.30	
Education Programs	57008		100.42	
Engineering Support	53004		542.88	
Engineering Support - 4th Gen Plan	53007		39.00	
Total Claims				33,012.16

Shingle Creek Watershed Management Commission Treasurer's Report

	Total Grant	March	April	%age YTD	YTD
GRANTS					
Bass/Pomerleau Lakes Internal Load Reduction (267,040				
Revenue		26,704.00			26,704.00
Expense		15,365.00	124.00		15,489.00
Balance		11,339.00			11,215.00
2018 BWSR Watershed-Based Funding	103,571				
Revenue		51,785.00			51,785.00
Expense					-
Balance		51,785.00			51,785.00
SRP Reduction Project (MPCA)	72,170				
Revenue					-
Expense					-
Balance		-			-
Crystal Lake Management Plan (MPCA)					
Revenue					-
Expense		2,106.50	124.00		2,230.50
Balance		(2,106.50)			(2,230.50)
MN DNR Floodplain Modeling & Mapping	50,000				
Revenue					-
Expense					-
Balance		-			-
2021 HC OG SRP Channel Filter Project	75,000				
Revenue					-
Expense		330.00			330.00
Balance		(330.00)			(330.00)
2021 BWSR WBIF Bass Creek Restoration	70,000				
Revenue					-
Expense					-
Balance		-			-
2021 BWSR WBIF Meadow Lake Drawdown & Al	40,000				
Revenue					-
Expense		35,235.00			35,235.00
Balance		(35,235.00)			(35,235.00)
2021 CWF Meadow Lake Mgt Plan	153,510				
Revenue					-
Expense					-
Balance		-	-		-
2021 CWF Connections II	328,000				
Revenue					-
Expense					-
Balance		-	-		-
TOTAL GRANTS					
Revenue		78,489.00	-		78,489.00
Expense		53,036.50	248.00		53,284.50
Balance		25,452.50	(248.00)		25,204.50



INVOICE

Invoice Number 1906123
Invoice Date March 31, 2022
Purchase Order --
Customer Number 165842
Project Number 227704733

Bill To
 Shingle Creek Watershed Management Commission
 Judie Anderson
 3235 Fernbrook Lane
 Plymouth MN 55447
 United States

Please Remit To
 Stantec Consulting Services Inc. (SCSI)
 13980 Collections Center Drive
 Chicago IL 60693
 United States

Project	Shingle Creek 2022 General Engineering Services		
Project Manager	Spector, Diane F	Contract Upset	75,000.00
Current Invoice Total (USD)	5,454.75	Amount Billed to Date For Period Ending	22,931.75 March 25, 2022

Top Task 100 2022 General Engineering Services

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Kemmitt, Kathrine Lee (Katie)	12.25	124.00	1,519.00
Megow, Erik Robert	7.00	165.00	1,155.00
Spector, Diane F	8.75	187.00	1,636.25
Shoemaker, Todd E	3.50	207.00	724.50
Matthiesen, Edward Armin (Ed)	2.00	210.00	420.00
Subtotal Professional Services	<u>33.50</u>		<u>5,454.75</u>

Top Task Subtotal 2022 General Engineering Services 5,454.75

Total Fees & Disbursements 5,454.75
INVOICE TOTAL (USD) 5,454.75

Due upon receipt or in accordance with terms of the contract



INVOICE

Invoice Number	1906117
Invoice Date	March 31, 2022
Purchase Order	--
Customer Number	165842
Project Number	227704716

Bill To
 Shingle Creek Watershed Management Commission
 Judie Anderson
 3235 Fernbrook Lane
 Plymouth MN 55447
 United States

Please Remit To
 Stantec Consulting Services Inc. (SCSI)
 13980 Collections Center Drive
 Chicago IL 60693
 United States

Project	Shingle Creek 2022 Grant Writing		
Project Manager	Spector, Diane F	Contract Upset	12,000.00
Current Invoice Total (USD)	280.50	Amount Billed to Date	5,625.50
		For Period Ending	March 25, 2022

Top Task **100** **2022 Grant Writing**

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Spector, Diane F	1.50	187.00	280.50
Subtotal Professional Services	<u>1.50</u>		<u>280.50</u>

Top Task Subtotal	2022 Grant Writing	280.50
Total Fees & Disbursements		<u>280.50</u>
INVOICE TOTAL (USD)		280.50

Due upon receipt or in accordance with terms of the contract



INVOICE

Invoice Number	1906120
Invoice Date	March 31, 2022
Purchase Order	--
Customer Number	165842
Project Number	227704718

Bill To

Shingle Creek Watershed Management Commission
 Judie Anderson
 3235 Fernbrook Lane
 Plymouth MN 55447
 United States

Please Remit To

Stantec Consulting Services Inc. (SCSI)
 13980 Collections Center Drive
 Chicago IL 60693
 United States

Project	Shingle Creek 2022 Project Reviews		
Project Manager	Spector, Diane F	Contract Upset	43,000.00
Current Invoice Total (USD)	4,395.00	Amount Billed to Date	6,933.25
		For Period Ending	March 25, 2022

Top Task	100	General
Low Task	100	General

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Spector, Diane F	0.50	187.00	93.50
Shoemaker, Todd E	1.50	207.00	310.50
Subtotal Professional Services	<u>2.00</u>		<u>404.00</u>

Low Task Subtotal	General	404.00
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Top Task Subtotal	General	404.00
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Top Task	300	Project Reviews
Low Task	300.003	SC2022-02 Arbor Lakes Phase II Bldg B

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Clapp, Lucas W	2.25	120.00	270.00
Shoemaker, Todd E	8.00	207.00	1,656.00
Subtotal Professional Services	<u>10.25</u>		<u>1,926.00</u>

Low Task Subtotal	SC2022-02 Arbor Lakes Phase II Bldg B	1,926.00
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Low Task	300.004	SC2022-02 Nathan Lane Business Center
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Spector, Diane F	0.25	187.00	46.75
Shoemaker, Todd E	9.75	207.00	2,018.25
Subtotal Professional Services	<u>10.00</u>		<u>2,065.00</u>



INVOICE

Invoice Number 1906120
Invoice Date March 31, 2022
Purchase Order --
Customer Number 165842
Project Number 227704718

Low Task Subtotal	SC2022-02 Nathan Lane Business Center	2,065.00
Top Task Subtotal	Project Reviews	3,991.00
	Total Fees & Disbursements	4,395.00
	INVOICE TOTAL (USD)	4,395.00

Due upon receipt or in accordance with terms of the contract



INVOICE

Invoice Number 1906119
Invoice Date March 31, 2022
Purchase Order --
Customer Number 165842
Project Number 227704717

Bill To

Shingle Creek Watershed Management Commission
 Judie Anderson
 3235 Fernbrook Lane
 Plymouth MN 55447
 United States

Please Remit To

Stantec Consulting Services Inc. (SCSI)
 13980 Collections Center Drive
 Chicago IL 60693
 United States

Project	Shingle Creek 2022 TMDL 5-Year Reviews		
Project Manager	Spector, Diane F	Contract Upset	5,000.00
Current Invoice Total (USD)	1,271.00	Amount Billed to Date For Period Ending	2,570.25 March 25, 2022

Top Task	100	2022 TMDL 5-Year Reviews		
<u>Professional Services</u>				
Category/Employee		Current Hours	Rate	Current Amount
	Dougherty, Conor	6.00	124.00	744.00
	Kemmitt, Kathrine Lee (Katie)	4.25	124.00	527.00
	Subtotal Professional Services	<u>10.25</u>		<u>1,271.00</u>
Top Task Subtotal	2022 TMDL 5-Year Reviews			1,271.00
	Total Fees & Disbursements			<u>1,271.00</u>
	INVOICE TOTAL (USD)			1,271.00

Due upon receipt or in accordance with terms of the contract



INVOICE

Invoice Number 1906375
Invoice Date March 31, 2022
Purchase Order --
Customer Number 165842
Project Number 227704728

Bill To

Shingle Creek Watershed Management Commission
 Judie Anderson
 3235 Fernbrook Lane
 Plymouth MN 55447
 United States

Please Remit To

Stantec Consulting Services Inc. (SCSI)
 13980 Collections Center Drive
 Chicago IL 60693
 United States

Project	Shingle Creek 2022 CAMP			
	Project Manager	Kemmitt, Katie	Contract Upset	2,000.00
	Current Invoice Total (USD)	865.25	Amount Billed to Date For Period Ending	865.25 March 25, 2022

Top Task **100** **2022 CAMP**

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Tourtillott, Danielle M	0.25	113.00	28.25
Stone, Alicia L (Ali)	6.75	124.00	837.00
Subtotal Professional Services	7.00		865.25

Top Task Subtotal	2022 CAMP		865.25
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Total Fees & Disbursements	865.25
INVOICE TOTAL (USD)	865.25

Due upon receipt or in accordance with terms of the contract



INVOICE

Invoice Number 1906379
Invoice Date March 31, 2022
Purchase Order --
Customer Number 165842
Project Number 227704731

Bill To

Shingle Creek Watershed Management Commission
 Judie Anderson
 3235 Fernbrook Lane
 Plymouth MN 55447
 United States

Please Remit To

Stantec Consulting Services Inc. (SCSI)
 13980 Collections Center Drive
 Chicago IL 60693
 United States

Project	Shingle Creek 2022 Stream Monitoring		
Project Manager	Kemmitt, Katie	Contract Upset	35,000.00
Current Invoice Total (USD)	1,714.18	Amount Billed to Date For Period Ending	3,535.17 March 25, 2022

Top Task **100** **2022 Stream Monitoring**

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Dougherty, Conor	6.50	124.00	806.00
Kemmitt, Kathrine Lee (Katie)	6.50	124.00	806.00
Subtotal Professional Services	<u>13.00</u>		<u>1,612.00</u>

Disbursements

Direct - Testing & Lab Charges	70.00
Usage - Vehicle	32.18
Subtotal Disbursements	<u>102.18</u>

Top Task Subtotal	2022 Stream Monitoring	1,714.18
Total Fees & Disbursements		<u>1,714.18</u>
INVOICE TOTAL (USD)		1,714.18

Due upon receipt or in accordance with terms of the contract



INVOICE

Invoice Number 1906377
Invoice Date March 31, 2022
Purchase Order --
Customer Number 165842
Project Number 227704730

Bill To

Shingle Creek Watershed Management Commission
 Judie Anderson
 3235 Fernbrook Lane
 Plymouth MN 55447
 United States

Please Remit To

Stantec Consulting Services Inc. (SCSI)
 13980 Collections Center Drive
 Chicago IL 60693
 United States

Project	Shingle Creek 2022 Lake Monitoring		
Project Manager	Kemmitt, Katie	Contract Upset	28,000.00
Current Invoice Total (USD)	589.00	Amount Billed to Date For Period Ending	1,082.25 March 25, 2022

Top Task	100	2022 Lake Monitoring		
<u>Professional Services</u>				
Category/Employee		Current Hours	Rate	Current Amount
	Dougherty, Conor	0.50	124.00	62.00
	Kemmitt, Kathrine Lee (Katie)	4.00	124.00	496.00
	Omodt, Nicholas D (Nick)	0.25	124.00	31.00
	Subtotal Professional Services	<u>4.75</u>		<u>589.00</u>
Top Task Subtotal	2022 Lake Monitoring			589.00
	Total Fees & Disbursements			<u>589.00</u>
	INVOICE TOTAL (USD)			589.00

Due upon receipt or in accordance with terms of the contract



INVOICE

Invoice Number 1906107
Invoice Date March 31, 2022
Purchase Order --
Customer Number 165842
Project Number 227701160

Bill To

Shingle Creek Watershed Management Commission
 Accounts Payable
 3235 Fernbrook Lane
 Plymouth MN 55447
 United States

Please Remit To

Stantec Consulting Services Inc. (SCSI)
 13980 Collections Center Drive
 Chicago IL 60693
 United States

Project	B001240-18-200: Bass and Pomerleau Lakes Alum Treatment		
Project Manager	Spector, Diane F	Contract Upset	133,870.00
Current Invoice Total (USD)	124.00	Amount Billed to Date	133,854.86
		For Period Ending	March 25, 2022

Top Task 104 SAV Surveys and Permitting

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Kemmitt, Kathrine Lee (Katie)	1.00	124.00	124.00
Subtotal Professional Services	<u>1.00</u>		<u>124.00</u>

Top Task Subtotal	SAV Surveys and Permitting	124.00
Total Fees & Disbursements		<u>124.00</u>
INVOICE TOTAL (USD)		124.00

Due upon receipt or in accordance with terms of the contract



INVOICE

Invoice Number	1906109
Invoice Date	March 31, 2022
Purchase Order	--
Customer Number	165842
Project Number	227701416

Bill To

Shingle Creek Watershed Management Commission
 Accounts Payable
 3235 Fernbrook Lane
 Plymouth MN 55447
 United States

Please Remit To

Stantec Consulting Services Inc. (SCSI)
 13980 Collections Center Drive
 Chicago IL 60693
 United States

Project	B001240-20-216: Crystal Lake Management Plan		
Project Manager	Spector, Diane F	Contract Upset	140,830.00
Current Invoice Total (USD)	124.00	Amount Billed to Date For Period Ending	77,761.10 March 25, 2022

Top Task 101A Dosing

Professional Services

Category/Employee		Current Hours	Rate	Current Amount
	Kemmitt, Kathrine Lee (Katie)	1.00	124.00	124.00
	Subtotal Professional Services	<hr/> 1.00		<hr/> 124.00

Top Task Subtotal	Dosing		124.00
Total Fees & Disbursements			<hr/> 124.00
INVOICE TOTAL (USD)			124.00

Due upon receipt or in accordance with terms of the contract



INVOICE

Invoice Number 1906114
Invoice Date March 31, 2022
Purchase Order --
Customer Number 165842
Project Number 227704259

Bill To
 Shingle Creek Watershed Management Commission
 Judie Anderson
 3235 Fernbrook Lane
 Plymouth MN 55447
 United States

Please Remit To
 Stantec Consulting Services Inc. (SCSI)
 13980 Collections Center Drive
 Chicago IL 60693
 United States

Project	Shingle Creek and West Mississippi Fourth Generation Watershed Management Plan		
Project Manager	Spector, Diane F	Contract Upset	74,706.00
Current Invoice Total (USD)	6,249.25	Amount Billed to Date	51,390.00
		For Period Ending	March 25, 2022

Top Task **100** **4th Gen Planning Services**

Professional Services

Category/Employee	Current		Current Amount
	Hours	Rate	
Kemmitt, Kathrine Lee (Katie)	3.25	124.00	403.00
Mueller, Kevin James	18.75	149.00	2,793.75
Megow, Erik Robert	1.50	165.00	247.50
Spector, Diane F	15.00	187.00	2,805.00
Subtotal Professional Services	<u>38.50</u>		<u>6,249.25</u>

Top Task Subtotal	4th Gen Planning Services	6,249.25
Total Fees & Disbursements		<u>6,249.25</u>
INVOICE TOTAL (USD)		6,249.25

Due upon receipt or in accordance with terms of the contract

SC - 4,374.47
 WM - 1,874.78



INVOICE

Invoice Number 1906122
Invoice Date March 31, 2022
Purchase Order --
Customer Number 165842
Project Number 227704732

Bill To
 Shingle Creek Watershed Management Commission
 Judie Anderson
 3235 Fernbrook Lane
 Plymouth MN 55447
 United States

Please Remit To
 Stantec Consulting Services Inc. (SCSI)
 13980 Collections Center Drive
 Chicago IL 60693
 United States

Project	Shingle Creek 2022 Education Outreach		
Project Manager	Spector, Diane F	Contract Upset	24,000.00
Current Invoice Total (USD)	3,553.00	Amount Billed to Date	7,414.75
		For Period Ending	March 25, 2022

Top Task 100 General

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Spector, Diane F	18.25	187.00	3,412.75
Subtotal Professional Services	<u>18.25</u>		<u>3,412.75</u>

Top Task Subtotal General 3,412.75

Top Task 200 WMWA

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Spector, Diane F	0.75	187.00	140.25
Subtotal Professional Services	<u>0.75</u>		<u>140.25</u>

Top Task Subtotal WMWA 140.25

Total Fees & Disbursements 3,553.00
INVOICE TOTAL (USD) 3,553.00

Due upon receipt or in accordance with terms of the contract

SC Education \$ 1,706.37
 WmWA 140.25

 \$ 1,846.62

WM Education
 \$1,706.38



INVOICE

Invoice Number	1906376
Invoice Date	March 31, 2022
Purchase Order	--
Customer Number	165842
Project Number	227704729

Bill To
 Shingle Creek Watershed Management Commission
 Judie Anderson
 3235 Fernbrook Lane
 Plymouth MN 55447
 United States

Please Remit To
 Stantec Consulting Services Inc. (SCSI)
 13980 Collections Center Drive
 Chicago IL 60693
 United States

Project	Shingle Creek 2022 Monitoring Report		
Project Manager	Kemmitt, Katie	Contract Upset	24,000.00
Current Invoice Total (USD)	6,094.50	Amount Billed to Date	20,227.25
		For Period Ending	March 25, 2022

Top Task 100 2022 Monitoring Report

Professional Services

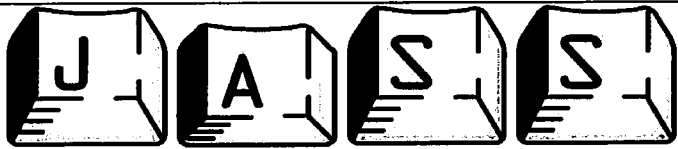
Category/Employee	Current Hours	Rate	Current Amount
Dougherty, Conor	1.00	124.00	124.00
Kemmitt, Kathrine Lee (Katie)	25.25	124.00	3,131.00
Omodt, Nicholas D (Nick)	7.00	124.00	868.00
Stone, Alicia L (Ali)	11.00	124.00	1,364.00
Wilkinson, Anne A	4.50	135.00	607.50
Subtotal Professional Services	<u>48.75</u>		<u>6,094.50</u>

Top Task Subtotal 2022 Monitoring Report 6,094.50

Total Fees & Disbursements 6,094.50
INVOICE TOTAL (USD) 6,094.50

Due upon receipt or in accordance with terms of the contract

SC - 4,083.32
 WM - 2,011.18



Your Virtual Administrator

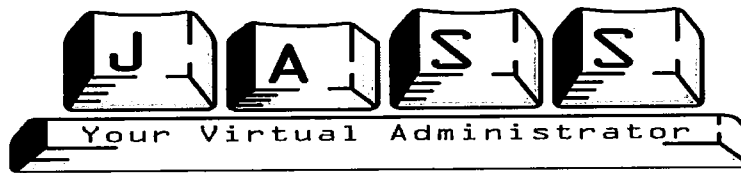
3235 Fernbrook Lane Plymouth MN
55447

Shingle Creek Watershed Management Commission
3235 Fernbrook Lane
Plymouth MN 55447

12-Apr-22

Re: 2022 WMWA General Expense and Watershed PREP

Description	Rate	Hours/ No.	Amount	Total
General Expense				
Secretarial	65.00		-	
Administrative	70.00	8.60	602.00	
Administrative - website, Facebook, Twitter	65.00	2.17	141.05	
Offsite, WMWA meetings, Blue Thumb, Watershed Partners, Home Expo, Henn County, city events	75.00	1.67	125.25	
Website hosting, Godaddy renewal	1.00	44.00	44.00	
Reimbursables	2.09	1.00	2.09	
Total General Expense				914.39
Watershed PREP				
Secretarial	60.00		-	
Administrative	65.00		-	
Offsite	70.00	0.33	23.10	
Reimbursables	1.00		-	
Total Watershed PREP				23.10
Total this invoice				937.49
Partner Share				234.37



3235 Fernbrook Lane
Plymouth MN 55447

Shingle Creek / West Mississippi Watershed Management Commissions
3235 Fernbrook Lane
Plymouth, MN 55447

April 12, 2022

	Share	G/L	Shingle Creek			West Mississippi		Total Project Area		
								SC	WM	
Administrative		53001	65.00	-		0.25	65.00	16.25		
Administrative	70-30	53001	65.00	-			65.00	-		
Administrative	70-30	53001	29.82	70.00	1,461.18		70.00	626.22		
Administrative		53001	3.15	70.00	220.50	2.00	70.00	140.00		
Annual Report		53001	11.55	70.00	808.50	9.68	70.00	677.60		
Admin - virtual meeting	70-30	53001	4.35	75.00	228.38		75.00	97.88		
Annual Storage Rental - .14/.11		53001	1.00	50.54	50.54	1.00	43.60	43.60		
Office Support	70-30	53001	12.00	210.00	1,764.00		210.00	756.00		
Data Processing/File Mgmt	70-30	53001		70.00	-		70.00	-		
Archiving		53001		65.00	-		65.00	-		
Admin Reimbursables		53001	1,091.27	1.00	1,091.27	456.47	1.00	456.47	5,624.365	2,814.015
Bookkeeping		54022		65.00	-		65.00	-		
Bookkeeping		54022	7.09	70.00	496.30	3.74	70.00	261.80		
Audit Prep		54022		70.00	-		70.00	-	496.300	261.800
Project / WCA Reviews - Admin		53002	2.02	70.00	141.40	0.50	70.00	35.00		
Project Reviews - File Mgmt		53002		60.00	-		60.00	-		
Reimbursable Expenses		53002	8.21	1.00	8.21	6.83	1.00	6.83	149.610	41.830
Education - NPDES	50-50	57008	1.57	70.00	54.95		70.00	54.95		
Website	50-50	57008		65.00	-		65.00	-		
Website	50-50	57008	0.75	70.00	26.25		70.00	26.25		
Renew website domain	50-50	57008	26.00	1.00	13.00		1.00	13.00		
Education Reimbursables	50-50	57008	6.22	1.00	6.22	6.22	1.00	6.22	100.420	100.420
Engrg Support 4G Plan - Admin	70-30	53004	0.37	70.00	18.13		70.00	7.77		
Engrg Support 4G Plan - Offiste	70-30	53004		75.00	-		75.00	-		
Engrg Support 4G Plan Rembursab	70-31	53004	20.87	1.00	20.87	8.95	1.00	8.95	39.000	16.720
Engineering Support - Admin		53004		70.00	-		70.00	-		
Engineering Support - Admin	70-30	53004	6.18	70.00	302.82		70.00	129.78		
Engineering Support -virtual	70-30	53004	3.42	75.00	179.55		75.00	76.95		
Engineering Support Rembursables		53004	60.51	1.00	60.51	25.74	1.00	25.74	542.880	232.470
					6,952.58		3,467.26	6,952.575	3,467.255	

**West Mississippi Watershed Management Commission
Treasurer's Report**

	2022 Budget	March	April	%age YTD	2022 YTD
REVENUE					
Application Fees	18,000	2,500.00		26.11	4,700.00
Member Assessments	156,200			100.00	156,200.00
Interest & Dividend Income	2,500	46.21		2.48	62.00
Miscellaneous Income					-
<i>Transfer to (from) CIPs (see CIP Tracker page)</i>					-
<i>To (From) Reserve</i>	5,000				-
TOTAL REVENUE	181,700	2,546.21	-		160,962.00
EXPENSES					
ADMINISTRATION					
Administrative Services	32,000	1,843.35	2,814.01	20.25	6,480.72
Engineering Support	4,000	585.41	232.47	43.41	1,736.34
Project Reviews	1,500	49.43	41.83	10.90	163.48
ENGINEERING					
Administration	33,500	5,066.00	1,168.25	18.61	6,234.25
Grant Application Writing	500			0.00	-
Project Review	30,000	2,009.75	1,552.50	11.87	3,562.25
LEGAL					
Legal Services	4,500	246.00		5.47	246.00
MISCELLANEOUS					
Bookkeeping	3,300	478.10	261.80	34.28	1,131.20
Audit	5,000			0.00	-
Contingency	0				-
Insurance & Bonding	3,100			0.00	-
Meeting Expense	2,700			0.00	-
PROJECTS					
Macroinvertebrate Monitoring (River Watch)	0				-
Volunteer Wetland Monitoring (WHEP)	2,000			0.00	-
Outfall and Stream Monitoring	22,600	88.25	62.00	0.66	150.25
Annual Monitoring Report	8,000	4,663.81	2,011.18	83.44	6,674.99
Water Quality Education					
Education	16,500	1,856.12	1,806.80		3,686.37
Education Grants	0				-
WMWA General Programs	5,000			0.00	-
WMWA Implementation/Watershed Prep	6,500			0.00	-
Rain Garden Workshops	0				-
Management Plan/Amendments	1,000	28.96	16.72		45.68
4th Generation Plan		5,074.80	1,874.78		6,949.58
<i>Transfer to (from) CIPs</i>					-
<i>Transfer to (from) Grants</i>					-
<i>To (from) Reserves</i>					-
TOTAL OPERATING EXPENSE	181,700	21,989.98	11,842.34		37,061.11
CASH SUMMARY					
4M Fund Balance at 12/31/21					892,999.83
Plus Revenue Received to Date					163,006.34
Minus Claims Approved to Date					(60,875.70)
Minus Claims Presented Current Month					11,842.34
Fund Balance		1,018,815.15			1,006,972.81

**West Mississippi Watershed Management Commission
Treasurer's Report**

Claims Presented	General Ledger Acct No.	March	April		
					Total
Kennedy & Graven					-
Legal - General	52001				
Stantec (formerly Wenck)					8,375.09
General Engineering	51001		1,168.25		
Project Reviews	51002		1,552.50		
4th Generation Plan	51007		1,874.78		
Education Program	57008		1,706.38		
Water Monitoring Program	58011		62.00		
Annual Water Monitoring Report	58002		2,011.18		
Judie Anderson's Secretarial Service					3,467.25
Administration	53001		2,814.01		
Bookkeeping / Audit Prep	54002		261.80		
Project Review Support	53002		41.83		
Education Programs	57008		100.42		
Engineering Support	53004		232.47		
Engineering Support - 4th Gen Plan	53007		16.72		
Total Claims					11,842.34



INVOICE

Invoice Number	1906126
Invoice Date	March 31, 2022
Purchase Order	--
Customer Number	165866
Project Number	227704735

Bill To

West Mississippi Watershed Management Commission
 Judie Anderson
 3235 Fernbrook Lane
 Plymouth MN 55447
 United States

Please Remit To

Stantec Consulting Services Inc. (SCSI)
 13980 Collections Center Drive
 Chicago IL 60693
 United States

Project	WMWD 2022 General Engineering Services		
Project Manager	Spector, Diane F	Contract Upset	33,500.00
Current Invoice Total (USD)	1,168.25	Amount Billed to Date For Period Ending	6,234.25 March 25, 2022

Top Task	100	2022 General Engineering		
Professional Services				
Category/Employee		Current Hours	Rate	Current Amount
	Kemmitt, Kathrine Lee (Katie)	0.75	124.00	93.00
	Spector, Diane F	5.75	187.00	1,075.25
	Subtotal Professional Services	<u>6.50</u>		<u>1,168.25</u>
Top Task Subtotal	2022 General Engineering			1,168.25
	Total Fees & Disbursements			<u>1,168.25</u>
	INVOICE TOTAL (USD)			1,168.25

Due upon receipt or in accordance with terms of the contract



INVOICE

Invoice Number	1905248
Invoice Date	March 30, 2022
Purchase Order	--
Customer Number	165866
Project Number	227704739

Bill To

West Mississippi Watershed Management Commission
 Judie Anderson
 3235 Fernbrook Lane
 Plymouth MN 55447
 United States

Please Remit To

Stantec Consulting Services Inc. (SCSI)
 13980 Collections Center Drive
 Chicago IL 60693
 United States

Project	WMWD 2022 Project Reviews			
	Project Manager	Shoemaker, Todd E	Contract Upset	30,000.00
	Current Invoice Total (USD)	1,552.50	Amount Billed to Date	3,562.25
			For Period Ending	March 25, 2022

Top Task	100	General
Low Task	100	General

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Shoemaker, Todd E	1.50	207.00	310.50
Subtotal Professional Services	<u>1.50</u>		<u>310.50</u>

Low Task Subtotal	General	310.50
-------------------	----------------	--------

Top Task Subtotal	General	310.50
-------------------	---------	--------

Top Task	300	Project Reviews
Low Task	300.002	WM2022-02 Northpark Business Center, Bldgs 8-10 + Xylon Ext

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Shoemaker, Todd E	6.00	207.00	1,242.00
Subtotal Professional Services	<u>6.00</u>		<u>1,242.00</u>

Low Task Subtotal	WM2022-02 Northpark Business Center, Bldgs 8-10 + Xylon Ext	1,242.00
-------------------	--	----------

Top Task Subtotal	Project Reviews	1,242.00
-------------------	-----------------	----------

Total Fees & Disbursements	<u>1,552.50</u>
INVOICE TOTAL (USD)	1,552.50

Due upon receipt or in accordance with terms of the contract



INVOICE

Invoice Number	1906380
Invoice Date	March 31, 2022
Purchase Order	--
Customer Number	165866
Project Number	227704740

Bill To

West Mississippi Watershed Management Commission
 Judie Anderson
 3235 Fernbrook Lane
 Plymouth MN 55447
 United States

Please Remit To

Stantec Consulting Services Inc. (SCSI)
 13980 Collections Center Drive
 Chicago IL 60693
 United States

Project	WMWD 2022 Stream and Outfall Monitoring		
Project Manager	Kemmitt, Katie	Contract Upset	22,600.00
Current Invoice Total (USD)	62.00	Amount Billed to Date For Period Ending	150.25 March 25, 2022

Top Task 100 2022 Stream and Outfall Monitoring

Professional Services

Category/Employee		Current Hours	Rate	Current Amount
	Kemmitt, Kathrine Lee (Katie)	0.50	124.00	62.00
	Subtotal Professional Services	<u>0.50</u>		<u>62.00</u>

Top Task Subtotal 2022 Stream and Outfall Monitoring 62.00

Total Fees & Disbursements 62.00
INVOICE TOTAL (USD) 62.00

Due upon receipt or in accordance with terms of the contract



INVOICE

Invoice Number 1906122
Invoice Date March 31, 2022
Purchase Order --
Customer Number 165842
Project Number 227704732

Bill To
 Shingle Creek Watershed Management Commission
 Judie Anderson
 3235 Fernbrook Lane
 Plymouth MN 55447
 United States

Please Remit To
 Stantec Consulting Services Inc. (SCSI)
 13980 Collections Center Drive
 Chicago IL 60693
 United States

Project	Shingle Creek 2022 Education Outreach				
Project Manager		Spector, Diane F	Contract Upset		24,000.00
Current Invoice Total (USD)		3,553.00	Amount Billed to Date		7,414.75
			For Period Ending		March 25, 2022
Top Task	100	General			
Professional Services					
Category/Employee			Current Hours	Rate	Current Amount
		Spector, Diane F	18.25	187.00	3,412.75
		Subtotal Professional Services	<u>18.25</u>		<u>3,412.75</u>
Top Task Subtotal	General				3,412.75
Top Task	200	WMWA			
Professional Services					
Category/Employee			Current Hours	Rate	Current Amount
		Spector, Diane F	0.75	187.00	140.25
		Subtotal Professional Services	<u>0.75</u>		<u>140.25</u>
Top Task Subtotal	WMWA				140.25
		Total Fees & Disbursements			<u>3,553.00</u>
		INVOICE TOTAL (USD)			3,553.00

Due upon receipt or in accordance with terms of the contract

SC Education \$ 1706.37
 WmWA 140.25

 \$ 1,846.62

WM Education
 \$ 1,706.38



INVOICE

Invoice Number 1906114
Invoice Date March 31, 2022
Purchase Order --
Customer Number 165842
Project Number 227704259

Bill To

Shingle Creek Watershed Management Commission
 Judie Anderson
 3235 Fernbrook Lane
 Plymouth MN 55447
 United States

Please Remit To

Stantec Consulting Services Inc. (SCSI)
 13980 Collections Center Drive
 Chicago IL 60693
 United States

Project	Shingle Creek and West Mississippi Fourth Generation Watershed Management Plan		
Project Manager	Spector, Diane F	Contract Upset	74,706.00
Current Invoice Total (USD)	6,249.25	Amount Billed to Date	51,390.00
		For Period Ending	March 25, 2022

Top Task	100	4th Gen Planning Services		
<u>Professional Services</u>				
Category/Employee		Current Hours	Rate	Current Amount
	Kemmitt, Kathrine Lee (Katie)	3.25	124.00	403.00
	Mueller, Kevin James	18.75	149.00	2,793.75
	Megow, Erik Robert	1.50	165.00	247.50
	Spector, Diane F	15.00	187.00	2,805.00
	Subtotal Professional Services	<u>38.50</u>		<u>6,249.25</u>
Top Task Subtotal	4th Gen Planning Services			6,249.25
	Total Fees & Disbursements			<u>6,249.25</u>
	INVOICE TOTAL (USD)			6,249.25

Due upon receipt or in accordance with terms of the contract

SC - 4,374.47
 WM - 1,874.78



INVOICE

Invoice Number 1906376
Invoice Date March 31, 2022
Purchase Order --
Customer Number 165842
Project Number 227704729

Bill To

Shingle Creek Watershed Management Commission
 Judie Anderson
 3235 Fernbrook Lane
 Plymouth MN 55447
 United States

Please Remit To

Stantec Consulting Services Inc. (SCSI)
 13980 Collections Center Drive
 Chicago IL 60693
 United States

Project	Shingle Creek 2022 Monitoring Report		
Project Manager	Kemmitt, Katie	Contract Upset	24,000.00
Current Invoice Total (USD)	6,094.50	Amount Billed to Date	20,227.25
		For Period Ending	March 25, 2022

Top Task **100** **2022 Monitoring Report**

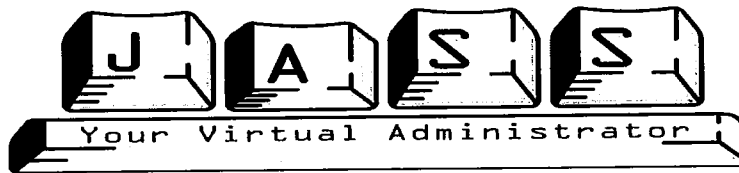
Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Dougherty, Conor	1.00	124.00	124.00
Kemmitt, Kathrine Lee (Katie)	25.25	124.00	3,131.00
Omodt, Nicholas D (Nick)	7.00	124.00	868.00
Stone, Alicia L (Ali)	11.00	124.00	1,364.00
Wilkinson, Anne A	4.50	135.00	607.50
Subtotal Professional Services	<u>48.75</u>		<u>6,094.50</u>

Top Task Subtotal	2022 Monitoring Report	6,094.50
Total Fees & Disbursements		<u>6,094.50</u>
INVOICE TOTAL (USD)		6,094.50

Due upon receipt or in accordance with terms of the contract

SC - 4,083.32
 WM - 2,011.18



3235 Fernbrook Lane
Plymouth MN 55447

Shingle Creek / West Mississippi Watershed Management Commissions
3235 Fernbrook Lane
Plymouth, MN 55447

April 12, 2022

	Share	G/L	Shingle Creek			West Mississippi		Total Project Area		
			SC	WM			SC	WM		
Administrative		53001	65.00	-	0.25	65.00	16.25			
Administrative	70-30	53001	65.00	-		65.00	-			
Administrative	70-30	53001	29.82	70.00	1,461.18	70.00	626.22			
Administrative		53001	3.15	70.00	220.50	2.00	70.00	140.00		
Annual Report		53001	11.55	70.00	808.50	9.68	70.00	677.60		
Admin - virtual meeting	70-30	53001	4.35	75.00	228.38		75.00	97.88		
Annual Storage Rental - .14/.11		53001	1.00	50.54	50.54	1.00	43.60	43.60		
Office Support	70-30	53001	12.00	210.00	1,764.00	210.00	756.00			
Data Processing/File Mgmt	70-30	53001		70.00	-		70.00	-		
Archiving		53001		65.00	-		65.00	-		
Admin Reimbursables		53001	1,091.27	1.00	1,091.27	456.47	1.00	456.47	5,624.365	2,814.015
Bookkeeping		54022		65.00	-		65.00	-		
Bookkeeping		54022	7.09	70.00	496.30	3.74	70.00	261.80		
Audit Prep		54022		70.00	-		70.00	-	496.300	261.800
Project / WCA Reviews - Admin		53002	2.02	70.00	141.40	0.50	70.00	35.00		
Project Reviews - File Mgmt		53002		60.00	-		60.00	-		
Reimbursable Expenses		53002	8.21	1.00	8.21	6.83	1.00	6.83	149.610	41.830
Education - NPDES	50-50	57008	1.57	70.00	54.95		70.00	54.95		
Website	50-50	57008		65.00	-		65.00	-		
Website	50-50	57008	0.75	70.00	26.25		70.00	26.25		
Renew website domain	50-50	57008	26.00	1.00	13.00		1.00	13.00		
Education Reimbursables	50-50	57008	6.22	1.00	6.22	6.22	1.00	6.22	100.420	100.420
Engrg Support 4G Plan - Admin	70-30	53004	0.37	70.00	18.13		70.00	7.77		
Engrg Support 4G Plan - Offiste	70-30	53004		75.00	-		75.00	-		
Engrg Support 4G Plan Rembursab	70-31	53004	20.87	1.00	20.87	8.95	1.00	8.95	39.000	16.720
Engineering Support - Admin		53004		70.00	-		70.00	-		
Engineering Support - Admin	70-30	53004	6.18	70.00	302.82		70.00	129.78		
Engineering Support -virtual	70-30	53004	3.42	75.00	179.55		75.00	76.95		
Engineering Support Rembursables		53004	60.51	1.00	60.51	25.74	1.00	25.74	542.880	232.470
					6,952.58			3,467.26	6,952.575	3,467.255

DRAFT



**Shingle Creek
Watershed Management Commission
2021 Annual Activity Report**

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- 1 Commissioners, TAC Members and Staff
- 2 Amendments to Watershed Plan
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This report was prepared for the
Shingle Creek Watershed Management Commission
by JASS

Questions regarding this report should be directed to
JASS, 763.553.1144 or judie@jass.biz.

We gratefully acknowledge the assistance of
Diane Spector and Katie Kemmitt, Wenck/Stantec

Cover photograph:
Carp Harvesting, Crystal Lake, Robbinsdale

2021 ANNUAL ACTIVITY REPORT

This annual report has been prepared by the Shingle Creek Watershed Management Commission in accordance with the annual reporting requirements of Minnesota Rules Chapter 8410.0150, Subps. 2 and 3. It summarizes the activities undertaken by the Commission during calendar year 2021.

THE COMMISSION

The Shingle Creek Watershed Management Commission is governed by a nine-member board comprised of representatives from each member city who are appointed for terms of three years. The nine member cities are Brooklyn Center, Brooklyn Park, Crystal, Maple Grove, Minneapolis, New Hope, Osseo, Plymouth and Robbinsdale. Commissioners who served in 2021 are shown in [Appendix 1](#). Also shown there are members of the Technical Advisory Committee (TAC) who represent the member cities.

CONSULTANTS

The Commission has no employees. The names of the consultants currently retained by the Commission are also listed in [Appendix 1](#).

MEETINGS

The Commission meets monthly at 12:45 p.m. on the second Thursday of the month. The meetings are open to the public. Meeting notices, agendas and approved minutes are posted on the Commission's website, www.shinglecreek.org. In 2021, due to the COVID-19 pandemic, Commission meetings were held virtually on www.zoom.us. Meeting dates and times remained the same.

WATERSHED MANAGEMENT PLAN

In 2013 the Shingle Creek and West Mississippi Watershed Management Commissions adopted their joint 2013-2022 Third Generation Watershed Management Plan. The Plan, approved by the Board of Water and Soil Resources (BWSR) on March 27, 2013, is the culmination of a two-year planning effort by the two Commissions, the cities that are members of these Joint Powers Organizations, state agencies, and the public. The Plan sets forth goals and strategies that will guide water resources management activities in the two watersheds over the coming decade. Over the years the Commission, either individually or together with the West Mississippi Commission, has adopted a number of amendments to the Plan. They are described briefly in [Appendix 2](#). In 2021,

the Commissions began the process of developing their Fourth Generation Plan. It is anticipated that they will complete the Plan and it will be approved by BWSR by the end of the year 2022.

LOCAL PLANS

Revisions to Minnesota Rules 8410 adopted in 2015 include significant changes in the timing of local water plan revisions. Found under Rule 8410.0105 sub-paragraph 9 and 8410.0160 subparagraph 6 local plan requirements are summarized in [Appendix 3](#).

STATUS OF 2021 WORK PLAN

The Third Generation Watershed Management Plan states that the Shingle Creek and West Mississippi Watershed Management Commissions will annually review progress toward their Third Generation goals and that this evaluation will become part of the Annual Activity Report. The purpose of the annual review is two-fold: to determine progress towards the goals and to be sure the Commission stays on track to reach them. The annual review also provides an opportunity to discuss whether the goals and actions in the Plan still make sense or if they should be considered for modification or enhancement, perhaps to add new priorities.

The Shingle Creek Watershed Management Commission established its 2021 Work Plan at its January 14, 2021 meeting. Highlights include:

- **DEVELOPMENT PROJECTS**

Complete reviews of development and redevelopment projects as necessary. *Nine projects were reviewed by the Commission in 2021. They are described in more detail in [Appendix 4](#). No variances were requested for these projects. The Commission does not have a permit program.*

- **STREAM MONITORING**

Complete routine flow and water quality monitoring and special project monitoring on streams in the Shingle Creek watershed. *Three sites along Bass and Shingle Creek were monitored biweekly from April through October: near the stream's outlet to the Mississippi River in Minneapolis (SC-0); mid-watershed in Brooklyn Park (SC-3); and in Bass Creek (BCP) in the upper watershed. Winter chloride was sampled monthly from November through March at the three locations mentioned and at the United States Geological Survey (USGS) gage site at Queen Avenue (SC-1). The Commission continued its partnership with the USGS to operate the Queen Avenue site.*

Completed 5-year biotic and DO TMDL review report for Shingle and Bass Creeks, conducted two additional DO longitudinal surveys at designated road crossings.

Partnered with the Cities of Brooklyn Park and Brooklyn Center to undertake Connections II streambank improvements for Shingle Creek from Regent Avenue to Brooklyn Boulevard. This project was awarded a \$328,000 Clean Water Fund grant.

Partnered with the City of Brooklyn Park to undertake Bass Creek Park streambank improvements from Cherokee Drive to I-694. *The project was awarded a \$70,000 Watershed-Based Implementation Fund (WBIF) grant.*

Partnered with the City of Crystal to plan for the SRP Channel filter Project to line about 400 feet of the channel downstream of the Wetland 639W overflow weir with iron-enhanced sand. Hennepin County awarded the Commission a \$75,000 Opportunity Grant for this project, matched by \$50,00 from the Commission's Closed Projects Account. *The City continues to work with the Metropolitan Airports Commission, the landowner, to obtain approval for the project.*

Sponsor Volunteer stream monitoring through RiverWatch and wetland monitoring through WHEP (Hennepin County). *Monitoring through the WHEP program did not occur in 2021 due to COVID-19. Hennepin County was able to complete one RiverWatch monitoring event on Shingle Creek below the Webber Park Falls with Avail Academy.*

- **LAKE MONITORING**

Conduct routine Commission lake water quality monitoring and aquatic vegetation and fish surveys on Success and Cedar Island Lakes and grant funded monitoring on Bass, Pomerleau, and Crystal Lakes. *Routine monitoring occurred on Cedar Island Lake and Lake Success in Maple Grove; Bass and Pomerleau Lakes in Plymouth; and Crystal Lake in Robbinsdale. Aquatic vegetation in all five lakes was surveyed once in late spring and again in late summer. The carp and fish populations of Cedar Island Lake were also surveyed. Crystal, Bass, and Pomerleau Lakes have all been listed as impaired for nutrients and are undergoing active management. Bass and Pomerleau Lakes each received two doses of alum – in May 2019 and in September 2020.*

Partner with the City of Robbinsdale to continue implementing the Crystal Lake Management Plan, including carp removal, aquatic vegetation management, and alum treatment. *Crystal Lake underwent invasive carp removals in Summer 2021 and received its first dose of alum in September 2021. The summer removal was featured on KARE 11 TV and in a Sun Post news article.*

Complete aquatic vegetation surveys on Bass and Upper Twin Lake and provide aquatic invasive species treatment as necessary. *Completed third year of delineating curly leaf pondweed for treatment purposes on Bass Lake.*

Partner with the City of New Hope to implement the Meadow Lake Management Plan. *This project was awarded a \$153,510 Clean Water Fund grant as well as a \$40,000 WBIF grant. A whole lake drawdown occurred in fall and winter 2021. This will be followed by alum treatments, fish and aquatic vegetation management, and monitoring.*

Sponsor volunteer lake monitoring through CAMP (Metropolitan Council). *Schmidt, Magda, Meadow, Eagle, and Pike Lakes were monitored through CAMP in 2021.*

Continue to implement TMDLs so as to delist all impaired waters in the watershed and to pursue grant funding for identified projects. *This is an ongoing goal of the Commission.*

Prepare an annual water quality report. *The 2021 Annual Water Quality Report was presented to the Commission at their April 14, 2022, meeting.*

- **STUDIES**

Complete the HUC study in partnership with the DNR. *Continue to work with the DNR to update the Special Flood Hazard Areas in the watershed (“the HUC8 Study”). In November of 2019, the Commission approved amending the scope of the ongoing HUC 8 hydrologic and hydraulic modeling to include the Twin and Ryan Lake/Creek system. This included additional detailed analysis of Twin Lakes and Ryan Lake to establish the regulatory High-Water Level (HWL) as well as additional analysis to determine how the proposed HWL will impact nearby structures and how to mitigate risk with additional drainage options. The agreement between the parties extended through March 31, 2021. Staff provided the member cities with shape files for their use and a pumping plan to coordinate overflow pumping. City and Commission staffs will work with the DNR to review and discuss where large rises occur before the Floodplain Areas and Profiles are published and mapped by FEMA.*

The Commission has had a goal to complete subwatershed assessments for at least 25% of that part of the watershed that developed prior to Commission rules in 1984. *Only 14% of the pre-1984 development Shingle Creek watershed has been completed as of the time when the Minneapolis Subwatershed Assessment was completed last year. A more achievable goal would be 15%.*

Participate in the Hennepin County Chloride Initiative (HCCL), *a collaborative initiative of the eleven watersheds in Hennepin County, funded by about \$100,000 set aside from the last round of Watershed-Based Funding (WBIF) provided by the Board of Water and Soil Resources (BWSR). Staff continued to participate in this work group.*

- **COST SHARE PROJECTS**

Solicit cost-share projects from member cities, to be funded from the Cost Share Fund and its annual \$100,000 levy and the Partnership Cost Share Fund with its annual \$50,000 levy. *In April, the Commission awarded \$30,000 for Phase II of the Brooks Garden project in Brooklyn Park. The second phase of this project includes creating nine raingardens throughout the complex to capture roof, sidewalk, and play area runoff and increase storage capacity in the floodplain. Total project cost is \$86,107.*

- **CAPITAL PROJECTS**

Review feasibility studies for 2021 proposed capital projects, undertake Plan Amendments, hold public hearings, order projects, and certify levies. *The joint Commissions conducted a public hearing on September 9, 2021, to consider four Shingle Creek and two West Mississippi projects for County levy in 2021 for collection in 2022. The cost of the four Shingle Creek projects is estimated to be \$975,000; the total levy amount is \$927,940. The four projects with their estimated costs and total levy amounts are:*

- *City Cost Share Projects, unidentified watershed-wide, \$200,000, \$106,050*
- *Partnership (private) Cost Share Projects, unidentified watershed-wide, \$50,000, \$53,025*
- *Palmer Lake Estates Bass Creek Restoration, Plymouth, \$600,000, \$636,300*
- *Phase 2 SRP Channel Extension, Crystal, \$125,000, \$132,565*

- **EDUCATION AND PUBLIC OUTREACH**

Participate in the West Metro Water Alliance (WMWA) joint education and outreach group. Continue its successful Watershed PREP classes. *The onset of the pandemic curtailed in-class participation. Only one classroom presentation was given in 2021, in the fall. Educators created a video of the presentation in 2020 for parents and teachers to use virtually. A new Educator was hired in November 2021 to replace an Educator who had retired.*

Identified and completed education and outreach activities that can assist member cities to fulfill requirements of the new NPDES General Permit – created and disseminated flyers related to pet waste, chloride use, and salt use. Appendix 5

Approved revisions to WMWA’s Education and Outreach Plan. Also found in Appendix 5.

Invite three guest speakers to make lunchtime water resources presentations.

In January, Stephen Mastey, Landscape Architects, gave an update on the Crescent Cover Partnership Cost Share project.

In November, Mastey and associates from his firm and the Crescent Cove Association returned to present a pictorial update on the project.

In addition, representatives from Metro Blooms and Boisclair Corporation were present at the April meeting to provide a pictorial update of Phase I of the Brooks Gardens Partnership Cost Share project. The Commission awarded \$30,000 in cost share funds to this project.

Tour project sites in the watershed. *Due to COVID-19 and the need for social distancing, no tours were conducted in 2021.*

Partner with other organizations to increase reach and cost effectiveness. *During 2021 the Commission partnered with many organizations, including the Board of Water and Soil Resources (BWSR), the Minnesota Pollution Control Agency (MPCA), Hennepin County*

Environment and Energy (HCEE), Three Rivers Park District (TRPD), the United States Geological Survey (USGS), the Metropolitan Council, and the Department of Natural Resources (DNR).

- **ADMINISTRATION AND OPERATIONS**

Prepare a 2022 annual operating budget and begin scoping the Fourth Generation Management Plan. *On May 13, 2021, the Commission adopted a \$372,700 operating budget for 2022. Assessment to the members totaled \$363,590, a zero increase over 2020 and 2021. See **Appendix 6** to view the 2022 budget.*

Began the process of developing the joint Commissions' Fourth Generation Watershed Management Plan. The kickoff meeting was held on September 9, 2021. It is anticipated that the Plan will be completed by the Commissions and approved by BWSR by the end of 2022.

Approved resolution authorizing the electronic storage of Commission records, electronic transactions, and electronic signatures.

Conducted a survey regarding preferences for in-person vs virtual meeting attendance. While slightly fewer than a majority of members desired to return to in-person, this possibility was also limited by the number of facilities open for a group of our size with social distancing.

- **ONGOING AND OUTSTANDING GOALS**

Begin work on the “sustainable water budget” project. *While Commission staff have had discussions with USGS staff about this, a funding source for this project has yet to be identified.*

The Commission has a goal of maintaining the functions and values of priority wetlands. *A process has not been established by which that would be evaluated.*

Expand the Directly Connected Untreated Areas geodatabase to include boundaries of the untreated areas directly connected to the lakes in the watershed. *Streams were completed in 2017.*

Partner with the USGS, DNR, and other interested parties to stay abreast of groundwater issues.

Continue to pursue grant funding for TMDL implementation projects.

Continue to identify, pursue grant funding for, and implement projects and programs addressing the bacterial impairment in Shingle Creek and the Mississippi River.

Stay abreast of other regional and state TMDLs.

CONSULTANT SERVICES SELECTION

Every two years, a solicitation of interest proposals for technical, legal and administrative services is

published in the State Register. Solicitations were published in the December 14, 2020, edition of the *State Register*. At their January 14, 2021, meeting, the Commission voted to retain the current consultants for 2021-2022. They are Wenck Associates, now part of Stantec Consulting Services, for technical services; Kennedy Graven Chartered for legal services, and Judie Anderson's Secretarial Services, Inc. for administrative services. This biennial process will be repeated in January 2023.

2021 WATER MONITORING

Minnesota Administrative Rule 8410.0100 Subp.5 requires watershed management organizations to conduct monitoring programs "capable of producing accurate data to the extent necessary to determine whether the water quality and quantity goals of the organization are being achieved."

The Shingle Creek and West Mississippi Watershed Management Commissions (WMCs) annually monitor water quality in the lakes, streams, and outfalls of the watersheds. The Commissions' technical staff obtain the stream and some lake water quality, fisheries, and vegetation data while volunteers also collect lake water quality and stream and wetland macroinvertebrate data.

Together the Shingle Creek and West Mississippi Watershed Management Commissions have established monitoring objectives to guide their monitoring programs. The following objectives have been established for stream, outfall, and lake monitoring in both watersheds:

- To quantify the current status of streams/outfalls and lakes (Shingle Creek only) throughout the watershed in comparison to state water quality standards established for nutrients, turbidity, chloride, bacteria, and other parameters currently regulated by the State.
- To quantify changes over time, or trends, in stream and lake water quality in the watersheds.
- To quantify the effectiveness of implemented BMPs throughout the watersheds for the protection of water quality.

Surface water quality in the watersheds is typical of urban lakes and streams in the Twin Cities metropolitan area. Agriculture followed by urban development have changed drainage patterns, increased pollutants to the waters, and reduced habitat for aquatic and terrestrial life. Both Shingle and Bass Creeks do not meet state water quality standards for chloride, bacteria, and dissolved oxygen, and have severely impacted fish and macroinvertebrate communities. Thirteen of the 16 lakes were originally listed as Impaired Waters of the State due to their high concentrations of phosphorus.

TMDLs and Implementation Plans have been approved for all the Impaired Waters and the Commission and member cities have been actively implementing improvements. Three lakes have subsequently been delisted, or removed, from the Impaired Waters list due to improved water quality. Two others now meet the standards and will be assessed for removal. Long-term stream monitoring shows a clear improvement in suspended sediment and nutrient concentrations in both

Shingle and Bass Creeks, a result of ongoing efforts to stabilize streambanks, increase the frequency of street sweeping, enhance erosion control on construction sites, and install Best Management Practices (BMPs) to treat stormwater before it is discharged into the streams. However, chloride concentrations in the streams, mostly from road salt applied in the winter for snow and ice control, continue to be high.

2021 monitoring activities in the two watersheds included stream and outfall monitoring and lake monitoring. Each monitoring effort is described later in this section.

STREAM MONITORING

In 2021 three sites along Bass/Shingle Creek were monitored biweekly April-October: the outlet in Minneapolis (SC-0); mid-watershed in Brooklyn Park (SC-3); and in Bass Creek (BCP) in the upper watershed. Winter chloride was sampled monthly from November-March at the three locations and at the USGS gage site located near the outlet of Shingle Creek. Real-time data from that site is available through the USGS website: <http://waterdata.usgs.gov/mn/nwis/uv?05288705>.

Due to the COVID 19 pandemic volunteer stream macroinvertebrate monitoring, conducted through the Hennepin County RiverWatch program, was limited to only one site in fall 2021.

LAKE MONITORING

Routine water quality monitoring in Cedar Island, Success, Bass, Pomerleau and Crystal lakes was conducted biweekly in 2021. Aquatic vegetation surveys were also conducted, once in late spring and once in late summer.

Thirteen of the sixteen lakes in Shingle Creek are periodically monitored for water quality by volunteers through the Citizen Assisted Monitoring program (CAMP). Volunteers in the program monitor their lake every other week from mid-April to mid-October. They measure surface water temperature, Secchi depth, and collect surface water samples that are analyzed by the Metropolitan Council for Total Phosphorus (TP), Total Kjeldahl Nitrogen (TKN), and chlorophyll-a. In 2021, Meadow, Schmidt, Magda, Eagle, and Pike lakes were monitored through CAMP.

Water quality monitoring in the lakes has helped our understanding of changes in lake health following management activities.

WETLAND MONITORING

As was the case with the RiverWatch program, wetland monitoring for macroinvertebrate communities and vegetation did not occur in 2021 due to COVID-19. The Wetland Health Evaluation Program (WHEP) is administered by Hennepin County.

The Commission's 2021 *Water Quality Monitoring Report* provides more detail on the Commission's stream and lake monitoring activities. The report will be forwarded to the Board of Water and Soil

Resources as a companion to this report. It will also be available on the Commissions' website, www.shinglecreek.org.

FINANCES

The Commission's Joint Powers Agreement provides that each member city contributes toward the annual operating budget based 50% on the area located within the watershed boundary and 50% on the tax capacity of all property within the watershed. The 2021 cost allocations to the members are shown as part of the 2021 Operating Budget found in [Appendix 6](#).

Of the \$442,590 operating budget approved by the Commission for 2021 revenue consisting of \$23,000 in application fees and reimbursements, \$41,000 in program reimbursements, and \$15,000 in interest income resulted in assessments to members totaling \$363,590.

The 2020 Audit Report, which was prepared by Johnson & Company, Ltd., Certified Public Accountants, may be viewed on the Commission's website, www.shinglecreek.org. The 2021 Audit Report will be posted there after June 30, 2022.

The Commission follows Rule 54 of the Government Accounting Standard Board (GASB) to report Fund Balances. The fund balance classifications include:

- *Nonspendable* – amounts that are not in a spendable form. The Commission does not have any items that fit this category.
- *Restricted* – amounts constrained to specific purposes by their providers. One example would be ad valorem levy funds received from the County for capital improvement projects. The unused portion of these funds must be set aside in a restricted account for similar projects. Another example would be BWSR Legacy Grant proceeds where the funds are received prior to the onset of a project and where any unused portion must be returned to the grantor.
- *Committed* – amounts constrained to specific purposes by the Commission itself. An example would be residual funds carried over from one year to the next for Studies, Project Identification and Subwatershed Assessments.
- *Assigned* – amounts the Commission intends to use for specific purposes. Most line items in the Commission's Operating Budget fall under this category.
- *Unassigned* – amounts that are available for any purpose. These amounts are reported only in the general fund.

Amounts paid by the Commission per the Commission's 2020 Annual Audit are:

General engineering	127,887
General administration	99,315

Education	28,533
Programs	103,439
Projects	259,194
Capital Projects	<u>185,405</u>
Total	\$ 803,773

General engineering work includes review of local plans, review of development/ redevelopment projects, tracking grant opportunities, attendance at meetings and other technical services. General administration includes support to technical staff, attendance at meetings, insurance premiums, bookkeeping and annual audit, legal counsel, and other non-engineering services.

PROJECTED 2022 WORK PLAN

The Shingle Creek Watershed Management Commission established its 2022 Work Plan at its January 13, 2022, meeting. Most of the activities of the Commission are ongoing, although some rotate around the watershed.

➤ Continue to Implement TMDLs.

Complete the 5-year performance review for the Bass and Shingle Creek Biotic and DO TMDL.

Complete aquatic vegetation surveys on Bass Lake and provide aquatic invasive species treatment as necessary.

Continue to partner with the City of Robbinsdale to continue implementing the Crystal Lake Management Plan, including carp removal, aquatic vegetation management, and alum treatment.

Continue to partner with the City of New Hope to implement the Meadow Lake Management Plan, including potential additional vegetation and fish management and preparation for an alum treatment.

Continue to partner with the Cities of Brooklyn Park and Brooklyn Center to undertake Connections II streambank improvements for Shingle Creek from Regent Avenue to Brooklyn Boulevard.

Continue to partner with the City of Brooklyn Park to undertake Bass Creek Park streambank improvements from Cherokee Drive to I-694.

If permission from MAC is secured, continue to partner with the City of Crystal to extend the SRP Reduction filter along the Wetland 639W overflow channel.

Continue to pursue grant funding for TMDL implementation projects.

Expand the Directly Connected Untreated Areas geodatabase to include boundaries of the

untreated areas directly connected to the lakes in the watershed. (Streams was completed in 2017.)

Stay abreast of other regional and state TMDLs.

➤ **Partner with other organizations to increase reach and cost effectiveness.**

Participate in the West Metro Water Alliance joint education and outreach group.

Continue to partner with the USGS to operate the Queen Avenue monitoring site.

Partner with the USGS, DNR, and other interested parties to stay abreast of groundwater issues.

Complete the HUC study in partnership with the DNR.

➤ **Continue ongoing administration and programming.**

Conduct routine Commission lake water quality monitoring and aquatic vegetation and fish surveys on Magda and Ryan Lakes and grant funded monitoring on Crystal and Meadow Lakes.

Conduct Commission routine flow and water quality monitoring at SC-0 and SC-3 on Shingle Creek and Bass Creek Park (BCP) on Bass Creek as well as two DO longitudinal studies as part of the Shingle and Bass Creeks Dissolved Oxygen (DO) and Biotic Integrity TMDL 5 Year Review.

If available, sponsor volunteer stream monitoring through RiverWatch and wetland monitoring through WHEP (Hennepin County).

Sponsor volunteer lake monitoring through CAMP (Met Council) on Bass Lake and the three basins of Twin Lake.

Complete reviews of development and redevelopment projects as necessary.

Prepare an annual water quality report.

Solicit cost-share projects from member cities funded from the Cost Share Fund and the annual \$100,000 levy and the Partnership Cost Share Fund and the annual \$50,000 levy.

Review feasibility studies for 2022 proposed capital projects, undertake Plan Amendments, hold public hearings, order projects, and certify levies.

Prepare a 2023 annual budget.

Host a Convene Meeting for the 2022-2023 Watershed-Based Funding awarded to the Shingle Creek Partnership.

Complete the Fourth Generation Plan and submit for public and BWSR review.

Invite three guest speakers to make lunchtime water resources presentations.
Tour project sites in the watershed.

Have a question about this report? Need more information?
Want to know how to get involved?
Contact us: drop us an email, give us a call, we're happy to help:
<http://www.shinglecreek.org/contact-us.html>

APPENDICES

2021 Commissioners

Representing	Name	Address	Telephone	Email	Term Expires Jan 31
Brooklyn Center	David Vlasin		651.792.7972	David.vlasin@rwmwd.org	2024
Brooklyn Park	Alex Prasch	6548 Georgia Avenue N Brooklyn Park, MN 55428	763.226.4711	alexa.prasch@gmail.com	2024
Crystal	Burton Orred, Jr. Treasurer	6700 60th Avenue North Crystal, MN 55428	763.533.7808	burtssquirts@gmail.com	2024
Maple Grove	Karen Jaeger Secretary	8459 Rice Lake Road Maple Grove, MN 55369	763.420.3838	kjaeger@ci.maple-grove.mn.us	2022
Minneapolis	Ray Schoch	5146 Russell Avenue North Minneapolis, MN 55430	612.529.4954	rayeschoch@gmail.com	2022
New Hope	Bill Wills	6149 Gettysburg Avenue N New Hope, MN 55428	763.531.0788	wjw9416@msn.com	2022
Osseo	John Roach	12-Sixth Street NE #113 Osseo, MN 55369	763.315.4258	johnbp60@gmail.com	2023
Plymouth	Andy Polzin Chair	18605 29th Avenue North Plymouth, MN 55447	952.832.2938	rapolzin@msn.com	2023
Robbinsdale	Wayne Sicora Vice Chair	3706 Abbott Avenue North Robbinsdale, MN 55422	763.522.8165	wayne.sicora@erm.com	2023

2021 Technical Advisory Committee

Representing	Name	Address	Telephone	Email
Brooklyn Center	Andrew Hogg	6301 Shingle Creek Parkway Brooklyn Center, MN 55430	763.569.3327	ahogg@ci.brooklyn-center.mn.us
Brooklyn Park	Mitchell Robinson	5200 85th Avenue North Brooklyn Park, MN 55443	763.493.8291	mitchell.robinson@brooklynpark.org
Crystal	Mark Ray	4141 Douglas Drive Crystal, MN 55422	763.531.1160	mark.ray@ci.crystalmn.gov
Maple Grove	Derek Asche	12800 Arbor Lakes Parkway Maple Grove, MN 55313	763.494.6354	dasche@ci.maple-grove.mn.us
Minneapolis	Elizabeth Stout	City of Lakes Building #300, 309 Second Avenue South Minneapolis, MN 55401	612.673.5284	Elizabeth.Stout@minneapolismn.gov
New Hope	Megan Hedstrom	5500 International Parkway New Hope, MN 55428	763.592.6765	mhedstrom@newhopemn.gov
Osseo	Nick Waldbillig	415 Central Avenue Osseo MN 55369	763-425-5741	nwaldbillig@ci.osseo.mn.us
Plymouth	Ben Scharenbroich	3400 Plymouth Boulevard Plymouth, MN 55447	763.509.5527	bscharenbroich@plymouthmn.gov
Robbinsdale	Richard McCoy	4100 Lakeview Avenue North Robbinsdale, MN 55422	763.531.1260	rmccoy@ci.robbinsdale.mn.us

2021 Shingle Creek Commission Staff

Name	Address	Telephone	Email
Technical			
Ed Matthiesen	Wenck Associates, Inc.	763.252.6851	edward.matthiesen@stantec.com
Diane Spector	7500 Highway 55 Ste 300	763.252.6880	diane.spector@stantec.com
Todd Shoemaker	Golden Valley, MN 55427	651.294.4585	todd.shoemaker@stantec.com
Katie L. Kemmitt		763.252.6879	katie.kemmitt@stantec.com
Legal			
Troy Gilchrist	Kennedy & Graven, 470 Pillsbury Center Minneapolis, MN 55402	612.337.9214	tgilchrist@kennedy-graven.com
Administrative			
Judie Anderson	JASS	763.553.1144	<u>judie@jass.biz</u>
Amy Juntunen	3235 Fernbrook Lane		<u>amy@jass.biz</u>
Beverly Love	Plymouth, MN 55447		<u>beverly@jass.biz</u>



**WEST MISSISSIPPI
WATERSHED MANAGEMENT COMMISSION**

2021 ANNUAL ACTIVITY REPORT

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This report was prepared for the
 West Mississippi Watershed Management Commission
 by JASS

Questions regarding this report should be directed to
 JASS, 763.553.1144 or judie@jass.biz

We gratefully acknowledge the assistance of
 Diane Spector and Katie Kemmitt
 Wenck/Stantec

Cover photograph:

River Park Prairie Restoration, Brooklyn Park

ANNUAL ACTIVITY REPORT

This annual report has been prepared by the West Mississippi Watershed Management Commission in accordance with the annual reporting requirements of Minnesota Rules Chapter 8410.0150, Subps. 2 and 3. It summarizes the activities undertaken during calendar year 2021.

THE COMMISSION

The West Mississippi Watershed Management Commission is governed by a five-member board comprised of representatives from each member city who are appointed for terms of three years. The five member cities are Brooklyn Center, Brooklyn Park, Champlin, Maple Grove, and Osseo. Commissioners who served in 2021 are shown in *Appendix 1*. Also shown there are the members of the Technical Advisory Committee (TAC) from each city.

CONSULTANTS

The Commission has no employees. The names of the consultants currently retained by the Commission are also listed in *Appendix 1*.

MEETINGS

The Commission meets monthly at 12:45 p.m. on the second Thursday of the month. The meetings are open to the public. Meeting notices, agendas and approved minutes are posted on the Commission's website, www.shinglecreek.org. The meetings are open to the public and visitors are welcome. However, due to the COVID-19 pandemic, in 2021 the Commission met virtually via www.zoom.us. All other meeting criteria remained the same.

WATERSHED MANAGEMENT PLAN

In 2013 the Shingle Creek and West Mississippi Watershed Management Commissions adopted their joint 2013-2022 Third Generation Watershed Management Plan. The Plan, approved by the Board of Water and Soil Resources (BWSR) on March 27, 2013, is the culmination of a nearly two-year planning effort by the two Commissions, the cities that are members of these joint powers organizations, state agencies, and the public. The Plan sets forth goals and strategies that will guide water resources management activities in the two watersheds over the coming decade. Over the years the Commission, either individually or together with the Shingle Creek Watershed Management Commission, has adopted a number of amendments to the Plan. They are described in *Appendix 2*.

LOCAL PLANS

Revisions to Minnesota Rules 8410 adopted in 2015 included significant changes in the timing of local water plan revisions. Per 8410.0105 subp. 9 and 8410.0160 subp. 6:

- Local water plans must be prepared by metropolitan cities and towns (municipalities) and a local water plan must become part of the local comprehensive plan for a municipality.
- Under the amended rule, local water plans must be revised essentially once every ten years in alignment with the local comprehensive plan schedule.
- A municipality has two years before its local comprehensive plan is due to adopt its local water plan.
- Prior to adoption, a municipality must prepare its local water plan, distribute it for comment, and have it approved by the organization with jurisdiction in the municipality.
- The most recent local comprehensive plans were due December 31, 2018. As of that date, the local plans of all member cities had been reviewed and approved by the Commission.
- Local water plans may be updated more frequently by a municipality at its discretion.

At a minimum, Local Plans are required to:

- Update the existing and proposed physical environment and land use. Information from previous plans that has not changed may be referenced and summarized but does not have to be repeated. Local Plans may adopt relevant sections of the Commission's Watershed Management Plan (WMP) Section 2.0 Inventory and Condition Assessment by reference unless the member city has more recent information.
- Update the existing and proposed hydrology and provide subwatershed, storm drainage system, and installed BMP figures and Shapefiles.
- Explain how the goals and policies and rules and standards established in the WMP will be implemented at the local level.
- Show how the member city will achieve the load reductions and other actions identified in and agreed to in TMDL Implementation Plans, including identifying known upcoming projects, including street reconstruction projects, that will provide opportunities to include load and volume reduction BMPs.
- Explain how the City will implement the project review requirements of the revised Rules and Standards.
- Update existing or potential water resource related problems and identify nonstructural, programmatic, and structural solutions, including those program elements detailed in MN Rules 8410.0100, Subp. 1-6.

- Summarize the estimated cost of implementation.
- Set forth an implementation program including a description of adoption or amendment of official controls and local policies necessary to implement the Rules and Standards, programs, policies, and a capital improvement plan.

STATUS OF 2021 WORK PLAN

The joint Third Generation Watershed Management Plan states that the Shingle Creek and West Mississippi Commissions will annually review progress toward their Third Generation goals and that this evaluation will become part of the Annual Activity Report.

The purpose of the annual review is twofold -- to determine progress towards the goals and to be sure the Commissions stay on track to reach them. The annual review is also an opportunity to discuss whether the goals and actions in the Plan still make sense or if they should be considered for modification or enhancement, perhaps to add new priorities. Ideally, this annual review is also an opportunity to start thinking about the following year's work plan.

At their January 14, 2021, meeting the West Mississippi Watershed Management Commission identified the following activities for inclusion in their 2021 Work Plan. Most are ongoing, although some activities rotate around the watershed. Some highlights of the past year include:

➤ **Continue to stay abreast of regional TMDLs.**

- Continue to identify, pursue grant funding for, and implement projects and programs addressing the bacterial impairment in the Mississippi River.
- Identify boundaries of the untreated areas directly connected to the Mississippi River or other conveyances.

➤ **Partner with other organizations to increase reach and cost effectiveness.**

- Participate in the West Metro Water Alliance (WMWA) joint education and outreach group. Continue its successful Watershed PREP classes. *The onset of the pandemic curtailed in-class participation. Only one classroom presentation was given in 2021, in the fall. Educators created a video of the presentation in 2020 for parents and teachers to use virtually. A new Educator was hired in November 2021 to replace an Educator who had retired.*

Identified and completed education and outreach activities that can assist member cities to fulfill requirements of the new NPDES General Permit – created and disseminated flyers related to pet waste, chloride use, and salt use. Appendix ___

Approved revisions to WMWA's Education and Outreach Plan. Also found in Appendix ___

- Partner with the USGS, DNR, and other interested parties to stay abreast of groundwater issues.
- Partner with a member city to complete a subwatershed BMP analysis.
- **Continue ongoing administration and programming.**
 - Undertake routine flow and water quality at two outfalls into the Mississippi River. Partner with the Mississippi Watershed Management Organization (MWMO) to perform the monitoring at the 65th Avenue outfall.
 - Sponsor volunteer stream monitoring through RiverWatch and wetland monitoring through WHEP (Hennepin County). *Due to the COVID-19 pandemic, neither program was offered in 2021.*
 - Complete reviews of development and redevelopment projects as necessary. *Eleven projects were reviewed by the Commission in 2021. They are described in more detail in Appendix 4. No variances were requested for these projects. The Commission does not have a permit program.*
 - Prepare an annual water quality report. *The 2021 Annual Water Quality Report will be presented and accepted at the Commission's April 14, 2022, meeting.*
 - Solicit cost-share projects from member cities funded from the Cost Share Fund and the annual \$50,000 levy. *At their April meeting, the Commission approved \$35,422 of Watershed-Based Funding to the City of Brooklyn Park's River Park Stormwater Improvements Project. Application for this funding was originally made to the Cost Share Program. The WBF resources were allocated by the Commission to the Cost Share Program as a convenience for disbursal.*
 - **Participate in the Hennepin County Chloride Initiative (HCCL),** a collaborative initiative of the eleven watersheds in Hennepin County, funded by about \$100,000 set aside from the last round of Watershed-Based Funding (WBIF) provided by the Board of Water and Soil Resources (BWSR).
 - Review feasibility studies for 2020 proposed capital projects, undertake Plan Amendments, hold public hearings, order projects and certify levies. *The joint Commissions conducted a public hearing on September 9, 2021, to consider four Shingle Creek and two West Mississippi projects for County levy in 2021 for collection in 2022. The cost of the two West Mississippi projects is estimated to be \$150,000; the total levy amount is \$159,075. The two projects with their estimated costs and total levy amounts are:*
 - City Cost Share Projects, unidentified watershed-wide, \$50,000, \$53,025*
 - Partnership (private) Cost Share Projects, unidentified watershed-wide, \$100,000, \$106,050*
 - Prepare a 2022 annual budget and begin scoping the Fourth Generation Plan, which will be

completed in 2022. The Commission approved its 2022 operating budget at its June 10, 2021 meeting and is in the amount of \$181,700. The 2022 budget provides for an assessment of \$156,200, an increase of \$2,600, or 1.7%, over the 2021 total assessment, the first increase since 2018.

- *Invite three guest speakers to make lunchtime water resources presentations. The speakers in 2021 presented on projects in the Shingle Creek watershed. They were:*

In January, Stephen Mastey, Landscape Architects, gave an update on the Crescent Cove Partnership Cost Share project.

In November, Mastey and associates from his firm and the Crescent Cove Association returned to present a pictorial update on the project.

Representatives from Metro Blooms and Boisclair Corporation were present at the April meeting to provide a pictorial update of Phase I of the Brooks Gardens Partnership Cost Share project. .

- *Tour project sites in the watershed. Due to COVID-19 and the need for social distancing, no tours were conducted in 2021.*

WATER MONITORING

The West Mississippi watershed is comprised of 25 square miles of 25% high impervious urban development and 38% low-moderate impervious urban development, with 18.3 miles of stream. There are still approximately 1,000 acres of agricultural land still in production within the city of Brooklyn Park in the western portion of the watershed. Most of the developed land in the watershed is single-family residential. Due to soil conditions within the watershed, there are no lakes and very few wetlands.

One of the defining characteristics of the West Mississippi watershed is its sandy, well-draining soils. Much of the watershed is located within the Anoka Sand Plain and, therefore, approximately 88% of the management unit contains type A, A/D, or B soils.

Surface water quality in the watershed is typical of urban lakes and streams in the Twin Cities metropolitan area. Agriculture followed by urban development have changed drainage patterns, increased pollutants to the waters, and reduced habitat for aquatic and terrestrial life. Diagnostic and feasibility studies completed between 2007 and 2011 have identified actions that can be taken in the watershed to help improve water quality.

Minnesota Administrative Rule 8410.0100 Subp.5 requires watershed management organizations to conduct monitoring programs *capable of producing accurate data to the extent necessary to determine whether the water quality and quantity goals of the organization are being achieved.*

The Shingle Creek and West Mississippi Watershed Management Commissions (WMCs) annually monitor water quality in the lakes, streams, and outfalls of the watersheds. A joint *Water Quality Report* summarizing current and historic conditions in the watersheds has been published annually since 1998. The 2021 report is found on the Shingle Creek/West Mississippi website at www.shinglecreek.org and will be made an addendum to this report.

Together, the Commissions have established monitoring objectives to guide their monitoring programs:

- To quantify the current status of streams/outfalls and lakes throughout the watersheds in comparison to state water quality standards established for nutrients, turbidity, chloride, bacteria, and other parameters currently regulated by the State.
- To quantify changes over time, or trends, in stream and lake water quality in the Shingle Creek and West Mississippi watersheds.
- To quantify the effectiveness of implemented BMPs throughout the watersheds for the protection of water quality.

There are four major outfalls in the West Mississippi watershed:

- Located in Champlin, the **Oxbow storm sewer outfall** consists of a series of storm sewer pipes that drain approximately 1,167 acres of land in Champlin and Maple Grove.
- The **Environmental Preserve** is a small stream located in Brooklyn Park. This stream drains approximately 2,160 acres upstream of Brooklyn Park's Environmental Preserve and outlets to a small wetland in the Coon Rapids Dam Regional Park.
- **Mattson Brook** is another small surface channel/stream that drains most of central Brooklyn Park (approximately 3,500 acres) and includes a tributary, Edinbrook/Century Channel.
- **The 65th Avenue outfall** is the outlet of the storm sewer trunk line that runs beneath 65th Avenue North in Brooklyn Center.

Data has been collected from West Mississippi river outfalls since 2010, monitoring water quality and flow at two of the four outfall monitoring sites per year. Stream monitoring efforts consist of continuous flow measurements and water quality samples. Four main water quality parameters are sampled at each of the outfall monitoring stations – TSS, TP, bacteria (E. coli), and chloride. *Flow at the Mattson Brook siter was monitored starting at the end of March 2021, and the 65th Avenue site was monitored for the entire year.*

In past years, high school volunteers coordinated by Hennepin County Environment and Energy (HCEE) have performed macroinvertebrate monitoring at a site on Mattson Brook through the River Watch program. *The program was not conducted in 2021 due to COVID 19.*

HCEE also coordinated wetland monitoring by adult volunteers through WHEP (Wetland Health Evaluation Program). *As with River Watch, WHEP was not conducted in 2021.*

CONSULTANT SERVICES SELECTION

Every two years, a solicitation of interest proposals for technical, legal, and administrative services is published in the State Register. Solicitations were published in the December 14, 2020, edition of the *State Register*. At their January 14, 2021, meeting, the Commission voted to retain the current consultants for 2021-2022. They are Wenck Associates, now part of Stantec Consulting Services, for technical services; Kennedy Graven Chartered for legal services, and Judie Anderson’s Secretarial Services, Inc. for administrative services. This biennial process will be repeated in January 2023.

FINANCIALS

The Commission’s Joint Powers Agreement provides that each member city contributes toward the annual operating budget based 50% on the area located within the watershed boundary and 50% on the tax capacity of all property within the watershed. The 2021 cost allocations to the members are shown as part of the Operating Budget found in **Appendix 4**.

Of the \$181,700 operating budget approved by the Commission for 2022, income of \$18,000 was projected as proceeds from application fees and reimbursements and \$2,500 as interest income, resulting in assessments to the members totaling \$156,200. \$5,000 was taken from Reserves.

The West Mississippi Watershed Management Commission maintains a checking account at US Bank for current expenses and rolls uncommitted monies to its account in the 4M Fund, the Minnesota Municipal Money Market Fund. Amounts paid by the Commission per the 2020 Audit are categorized as General Engineering, General Administration, Education, Programs, Projects, or Capital Projects, and are shown below.

General engineering	\$ 56,577
General administration	\$ 51,008
Education	\$ 21,815
Programs	\$ 30,407
Projects and Management Plans	<u>\$ 289</u>
Total	\$160,096

General engineering work includes review of local plans, review of development/ redevelopment projects, tracking grant opportunities, attendance at meetings and other technical services. General administration includes support to technical staff, attendance at meetings, insurance premiums, annual audit, legal counsel, and other non-engineering services.

Per Minnesota Rules, Chapter 8410, the Commission’s annual audit is due 180 days after the

end of the fiscal year; or June 30. Prepared by Johnson & Company, Ltd., Certified Public Accountants, the 2020 Audit Report, is available on the Commission's website, www.shinglecreek.org

The Commission follows Rule 54 of the Government Accounting Standard Board (GASB) to report Fund Balances. The fund balance classifications include:

- > *Nonspendable* – amounts that are not in a spendable form. The Commission does not have any items that fit this category.
- > *Restricted* – amounts constrained to specific purposes by their providers. One example would be ad valorem levy funds received from the County for capital improvement projects. The unused portion of these funds must be set aside in a restricted account for similar projects. Another example would be BWSR Legacy Grant proceeds where the funds are received prior to the onset of a project and where any unused portion must be returned to the grantor.
- > *Committed* – amounts constrained to specific purposes by the Commission itself. An example would be residual funds carried over from one year to the next for Studies, Project Identification and Subwatershed Assessments.
- > *Assigned* – amounts the Commission intends to use for specific purposes. Most line items in the Commission's Operating Budget fall under this category.
- > *Unassigned* – amounts that are available for any purpose. These amounts are reported only in the general fund.

PROJECTED 2022 WORK PLAN

At their January 13, 2022, meeting the West Mississippi Watershed Management Commission identified the following activities for inclusion in their 2022 Work Plan. Most are ongoing activities, although some rotate around the watershed.

- **Continue to stay abreast of regional TMDLs.**
 - Continue to identify, pursue grant funding for, and implement projects and programs addressing the bacterial impairment in the Mississippi River.
 - Stay abreast of other regional and state TMDLs.
 - Identify boundaries of the untreated areas directly connected to the Mississippi River or other conveyances.
- **Partner with other organizations to increase reach and cost effectiveness.**
 - Participate in the West Metro Water Alliance joint education and outreach group.
 - Partner with the USGS, DNR, and other interested parties to stay abreast of groundwater issues.
 - Partner with the MWMO to undertake monitoring at the 65th Avenue outfall.
 - Partner with a member city to complete a subwatershed BMP analysis.

➤ **Continue ongoing administration and programming.**

- Undertake routine flow and water quality at two outfalls into the Mississippi River.
- If available, sponsor volunteer stream monitoring through RiverWatch and wetland monitoring through WHEP (Hennepin County).
- Complete reviews of development and redevelopment projects as necessary.
- Prepare an annual water quality report.
- Solicit cost-share projects from member cities funded from the Cost Share Fund and the annual \$50,000 levy.
- Review feasibility studies for 2022 proposed capital projects, undertake Plan Amendments, hold public hearings, order projects, and certify levies.
- Prepare a 2023 annual budget.
- Complete the Fourth Generation Management Plan and submit for public and BWSR review.
- Host a Convene Meeting for the 2022-2023 Watershed-Based Funding awarded to the West Mississippi Partnership.
- Invite three guest speakers to make lunchtime water resources presentations.
- Tour project sites in the watershed.

Have a question about this report? Need more information? Want to know how to get involved? Contact us: drop us an email, give us a call, we're happy to help:

<http://www.shinglecreek.org/contact-us.html>

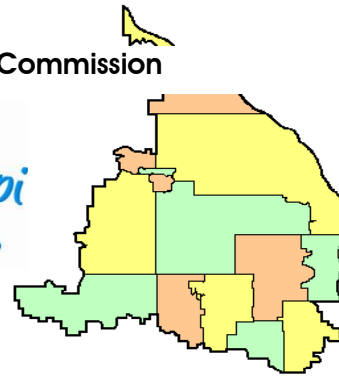
APPENDICES

2021 West Mississippi Commissioners and Technical Advisory Committee

	Representing	Name	Address	Telephone	Email	Term Expires
C o m m i s s i o n e r s	Brooklyn Center	David Vlasin Vice Chair		651.792.7972	david.vlasin@rwmwd.org	2024
	Brooklyn Park	Alex Prasch	6548 Georgia Avenue N Brooklyn Park, MN 55428	763.226.4711	alexa.prasch@gmail.com	2024
	Champlin	Gerry Butcher Chair	11467 Preserve Lane N Champlin, MN 55316	763.557.1451	JG_Butcher@yahoo.com	2025
	Maple Grove	Karen Jaeger Sec/Treas	8459 Rice Lake Road Maple Grove, MN 55369	763.420.3838	kjaeger@ci.maple-grove.mn.us	2025
	Osseo	Harold E. Johnson	12-Sixth Street NE Osseo, MN 55369	763.424.3707	HJohnson@ci.osseo.mn.us	2023
T e c h n i c a l A d v i s o r y C o m m i t t e e	Brooklyn Center	Andrew Hogg	City of Brooklyn Center 6301 Shingle Creek Pkwy Brooklyn Center, MN 55430	763.569.3327	ahogg@ci.brooklyn-center.mn.us	-
	Brooklyn Park	Mitchell Robinson	City of Brooklyn Park 5200 85th Avenue North Brooklyn Park, MN 55443	763.493.8291	Mitchell.Robinson@brooklynpark.org	
	Champlin	Todd Tuominen Heather Nelson	City of Champlin 11955 Champlin Drive Champlin, MN 55316	763.923.7120 763.923.7120	ttuominen@ci.champlin.mn.us hnelson@ci.champlin.mn.us	
	Maple Grove	Derek Asche	City of Maple Grove 12800 Arbor Lakes Pkwy Maple Grove, MN 55313	763.494.6354	dasche@maplegrovmn.gov	
	Osseo	Nick Waldbillig	City of Osseo 415 Central Avenue Osseo MN 55369	763.425.5741	nwaldbillig@ci.osseo.mn.us	

2021 West Mississippi Commission Staff

Name	Address	Telephone	Email
Technical			
Ed Matthiesen	Wenck Associates, Inc.	763.252.6851	edward.matthiesen@stantec.com
Diane Spector	(now Stantec Consulting Services.)	763.252.6880	diane.spector@stantec.com
Todd Shoemaker	7500 Highway 55 Ste 300	651.294.4585	todd.shoemaker@stantec.com
Katie L. Kemmitt	Golden Valley, MN 55427	763.252.6879	Katie.kemmitt@stantec.com
Legal			
Troy Gilchrist	Kennedy & Graven, 470 Pillsbury Center Minneapolis, MN 55402	612.337.9214	tgilchrist@kennedy-graven.com
Administrative			
Judie Anderson	JASS	763.553.1144	judie@jass.biz
Amy Juntunen	3235 Fernbrook Lane		amy@jass.biz
Beverly Love	Plymouth, MN 55447		beverly@jass.biz



National Pollutant Discharge Elimination System (NPDES) Phase II Education and Public Outreach Program 2021 Annual Report

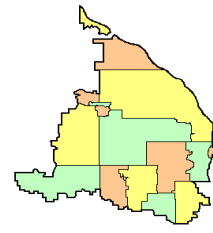
The Shingle Creek and West Mississippi Watershed Management Commissions conducted education and public outreach activities in 2020 in fulfillment of their Third Generation Watershed Management Plan Watershed Education and Public Outreach Program goals. However, due to the COVID-19 pandemic, many of these activities were modified to meet in-person guidelines, conducted virtually, or curtailed altogether.

EDUCATION AND PUBLIC OUTREACH PROGRAM GOALS

1. All members of the community become knowledgeable about the water resources in the watersheds and take positive action to protect and improve them.
2. All members of the community have a general understanding of watersheds and water resources and the organizations that manage them.
3. All members of the community have a general understanding of the Impaired Waters in the watersheds and take positive actions to implement TMDL requirements.

The Commissions identified the following general education and outreach strategies in the Third Generation Watershed Management Plan. More detailed educational goals by stakeholder groups may be found in Appendix E of that Plan.

- Maintain an active Education and Outreach Committee (EPOC) with representatives from all member cities to advise the Commissions and to assist in program development and implementation
- Participate in the West Metro Water Alliance (WMWA) to promote interagency cooperation and collaboration, pool resources to undertake activities in a cost-effective manner, and promote consistency of messages
- Use the Commissions', member cities', and educational partners' websites and newsletters, and local newspapers and cable TV to share useful information to stakeholders on ways to improve water quality
- Prominently display the Commissions' logos on information and outreach items, project and interpretive signs, and other locations to increase visibility
- Provide opportunities for the public to learn about and participate in water quality activities
- Provide cost-share funding to assist in the installation of small BMPs and demonstration projects
- Educate elected and appointed officials and other decision-makers
- Enhance education opportunities for youth
- Each year review and modify or develop and prioritize education and outreach activities and strategies for the coming two years



PROGRAM: WATERSHED PREP (PROTECTION, RESTORATION, EDUCATION, AND PREVENTION)

Audience: Fourth grade students, educators, families, the general public

Program Goals:

- a. Engage elementary students in hands-on learning about the water cycle and how the built environment influences stormwater runoff and downstream water quality.
- b. Provide general watershed and water quality education to citizens, lake associations, other civic organizations, youth groups, etc.

Educational Goals:

- a. Have a general understanding of watersheds, water resources and the organizations that manage them.
- b. Understand the connection between actions and water quality and water quantity.

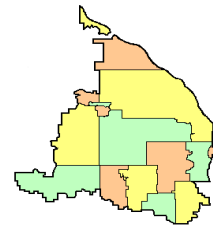
Specific Activities to Reach Goals:

Watershed PREP is a program of the West Metro Water Alliance (WMWA), a consortium of four WMOs including the Shingle Creek and West Mississippi WMOs, and stands for Protection, Restoration, Education, and Prevention. 2021 was the eighth year of the program. Individuals with science education backgrounds serve as contract educators to be shared between the member WMOs. The focus of the program is two-fold - to present water resource-based classes to fourth grade students and to provide education and outreach to citizens, lake associations, civic organizations, youth groups, etc.

Table 1. Watershed PREP Program participation.

Year	# Classrooms	# Students	# and Type of Schools
Lesson 1			
2013	63	1,679	13 in six districts; one charter school; one parochial school
2014	116	3,469	30 in seven districts; one magnet school; one parochial school
2015	122	3,183	36 in nine districts; two charter schools; five parochial schools
2016	107	2,850	29 in seven districts, one charter school, 5 parochial schools
2017	121	3,249	12 in seven districts, one charter school, one parochial school
2018	143	3,593	32 in seven districts, one charter school, 2 parochial schools
2019	103	2,681	27 in six districts, two magnet schools; one parochial school
2020*	20	572	6 in four districts, two magnet schools
2021	4	80	4 in one district
Lesson 2			
2013	14	390	Three in three districts; one charter school; one parochial school
2014	22	645	Five in three districts
2015	27	859	Six in five districts
2016	20	524	Five in three districts, one parochial school
2017	38	1,072	Seven in three districts, one parochial school
2018	69	1,755	16 in five districts, one parochial school
2019	58	1,516	16 in five districts, one magnet school
2020*	7	172	2 in two districts
2021			This lesson was not taught in 2021

*In 2021, Watershed PREP classes were limited by the constraints of the COVID-19 pandemic that closed schools. In some cases, Watershed PREP classes were conducted virtually.



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

Table 2. 2021 schools and students participating in Lesson 1: What is a Watershed?

Date	School	School District	City	Watershed	Classes	Students
10/26	Rice Lake	Osseo	Maple Grove	Elm	4	80

Table 3. 2021 schools and students participating in Lesson 2: The Incredible Journey

Date	School	School District	Watershed	Classes	Students
				0	0

One of the WMWA educators, has converted classroom Lesson #1 into a virtual, on-line learning experience. The lesson is posted to the WMWA website and to YouTube where it is available to educators, students, and the general public. She also sent out a link to the video to the teachers that she and the other educators have worked with in the classroom. The video can be viewed at westmetrowateralliance.org/. The video has had 222 views as of December 31, 2021.

The ultimate goal is to make this program available to all fourth graders in the four WMWA watersheds (Shingle Creek, West Mississippi, Bassett Creek, and Elm Creek), and to other schools as contracted. The program is offered to public, private, parochial, magnet and charter schools.

Community Education and Outreach. The PREP educators provide outreach at community and school events. Because of the nature of these events, it is usually difficult to keep a tally of the number of contacts made and citizens engaged. Scheduled events were cancelled in 2021.

Evaluation:

The educators evaluate the success of the Fourth Grade Program by surveying students and teachers about the quality of the program, the learning that was observed, and the performance of the educators. Much of the feedback occurs during and right after the presentations in spontaneous comments.

PROGRAM: DISTRIBUTE EDUCATIONAL MATERIALS

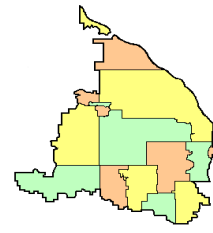
Audience: Multiple

Program Goals:

- a. Inform various stakeholders about the watershed organizations and their programs.
- b. Provide useful information to a variety of stakeholders on priority topics.
- c. Engage stakeholders and encourage positive, water-friendly behaviors.

Educational Goals:

- a. Property owners maintain properties and best management practices (BMPs) to protect water resources.
- b. Property owners adopt practices that protect water resources.
- c. Stakeholders support and engage in protection and restoration efforts.



Specific Activities to Reach Goals:

Maintain Your Property the Watershed Friendly Way

This handbook is targeted to small businesses, multi-family housing properties, and common ownership communities such as homeowners' associations. It contains tips for specifying and hiring turf and snow maintenance contractors and includes checklists for BMP inspections. Electronic copies have been provided to Shingle Creek and West Mississippi cities for their use and to be displayed on their websites. The handbook also appears on the WMWA website. Print copies are available for distribution.

10 Things You Can Do

In 2019 the Commissions partnered with WMWA to revise and refresh the popular brochure *10 Things You Can Do to protect Minnesota's lakes, rivers, and streams*. New emphasis was placed on salting sparingly and on conserving water.

Roots Displays

In 2020 WMWA partnered with other groups to design and commission fabrication of a new, lighter-weight version of a popular interactive display highlighting native plants, comparing their long roots to the shorter-rooted turf grasses. The new displays have been completed and delivered to the various groups that joined in on WMWA's order.

Press Releases and Newspaper Articles

Northwest Community Television currently provides services as CCX Media. CCX Media provides a Connected Community Experience for the northwest Hennepin County suburbs, offering daily televised news, and coverage of city council meetings, local events, and high school sports. CCX News aired televised coverage of the following stories:

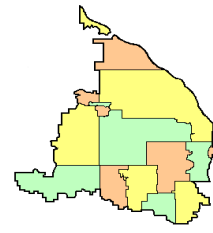
- Grants awarded for upcoming stream stabilization projects in Shingle and Bass Creeks ([CCX](#))
- Alum treatment on Crystal Lake ([CCX](#))
- Carp removals on Crystal Lake ([CCX](#)) ([Sun Post](#))
- [Invasive carp removal is a thing and the video is really cool | kare11.com](#)
- A Partnership Grant helped fund improvements to the Crescent Cove play space ([Sun Post](#))

Fliers

WMWA worked with the cities in the four watersheds to create or update informational fliers on three topics that are the focus of education and outreach in the 2021 General Stormwater Permit: pet waste and chloride management, and proper use and maintenance of water softeners.

Web Site

The Commissions maintained a joint web site, [shinglecreek.org](#), which includes information about the watersheds, the Commissions, and the water resources in the watersheds. In 2021, the website had 2,509 unique visitors for a total of 5,916 page views. The most common landing page was the home page, followed by the Commission and TAC meeting materials pages and the project review pages.



While the website is used mainly to access meeting and application materials, it is a good forum for sharing specific project information and gets decent traffic on other more general interest pages.

Social Media

The Commission established a Facebook page in 2016. In 2021 the Facebook page had 253 followers.

Evaluation:

Evaluation measures are as noted above: number of brochures and handbooks distributed; number of website hits; social media engagement. The new website uses Google Analytics to better track page views and unique visitors.

Program: Public Outreach

Audience: Residents, youth

Program Goals:

- a. Provide opportunities for people of all ages to participate in hands-on activities to protect and improve waters.
- b. Provide opportunities for people to learn about ways they can protect and improve waters.

Educational Goals:

- a. Maintain their properties and best management practices (BMPs) to protect water resources.
- b. Adopt practices that protect water resources.
- c. Support and engage in protection and restoration efforts.
- d. Participate in volunteer activities.

Specific Activities to Reach Goals:

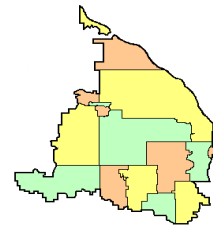
The *Pledge to Plant Campaign* was developed by Metro Blooms/Blue Thumb to encourage residents to replace impervious surface and turf grass with native plantings to benefit clean water by reducing stormwater runoff. The project includes the additional benefit of creating habitat for pollinators. In past years, the project was promoted in the Blue Thumb space at the State Fair where the public voted to name the campaign, *Pledge to Plant for Clean Water and Pollinators*.

Phase two of the project included a roll out of the Pledge campaign on the Metro Blooms and WMWA websites where citizens entered the square footage of their new plantings, creation of a *Pledge to Plant* banner to be displayed at events, and a social media campaign that began in 2016. In 2021, COVID-19 limited in-person engagement, cancelling most area events.

At year-end 2018, over 630 people had submitted the Pledge online covering over 417 acres. The total includes a handful of larger prairie restoration projects; the median pledge covers 250 square feet. Most of the Pledges came from the metro area, but Pledges have been received from more than 20 states. The *Pledge to Plant* campaign was also promoted during the Watershed PREP classes. Pledges were not tallied in 2019-2021.

Rain Garden Workshops

The Commissions partnered with WMWA to sponsor workshops through Metro Blooms. Metro Blooms is a non-profit organization whose mission is to promote and celebrate gardening, to beautify our communities and help heal and protect our environment.



Since the pandemic precluded holding in-person workshops, a new Blue Thumb training program was implemented to teach participants skills in inspecting and caring for raingardens and other green infrastructure, all within a framework of eco-friendly landscaping practices. People who take part in the three-session program receive a Sustainable Landcare Certificate. Participants in the program first receive Stormwater Basics, learning about watersheds and how water travels in our urban environment. They also learn how raingardens are built, how they work, and how to inspect them to ensure that they function properly. An important part of the program is identifying weeds, a major culprit of dysfunctional raingardens, and then choosing a way to manage them (without chemicals, if possible).

Hennepin County Chloride Initiative (HCCI)

The eleven WMOs in Hennepin County elected to set aside 10 percent (\$101,800) of the BWSR Watershed-Based Funding from the 2018 Pilot Program specifically for joint, countywide chloride reduction initiatives. The HCCI is comprised of one representative designated by each WMO. Ben Scharenbroich from the City of Plymouth represents Shingle Creek and Andrew Hogg from the City of Brooklyn Center represents West Mississippi.

The HCCI has been primarily engaged in better understanding barriers to chloride reduction BMPs and assessing training needs. The group has been partnering with the Minnesota Pollution Control Agency (MPCA) on one of the identified training needs – outreach and training opportunities for property managers. A training workshop has been developed and an accompanying handbook has been made available on the MPCA’s website at: <https://www.pca.state.mn.us/water/salt-applicators>. The handbook is intended to accompany the workshop, not replace it. The MPCA will be translating manuals and training materials into Spanish and may make other languages available if there is demand.

The HCCI also funded a demonstration project, the Parkers Lake Chloride Reduction Project, a partnership with Bassett Creek and the City of Plymouth. That project is evaluating a commercial/industrial area to identify chloride reduction BMPs to see what it would take to make a measurable reduction in chloride in runoff.

Finally, late in 2021 the HCCI engaged a marketing consultant to develop a campaign targeted toward homeowner’s associations and faith-based communities. This work would develop marketing materials and strategies to persuade these groups to adopt smart salting tactics. The intent is to start with targeted groups and then build up to larger entities in a grassroots-type marketing campaign.

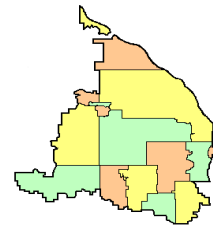
Shingle Creek Cleanup

The 21st Annual Great Shingle Creek Cleanup was scheduled to be held the week of April 18-24. Each city sponsors its own cleanup. While most cities cancelled the event in 2021, others held abbreviated versions to limit in-person contact.

Volunteer Monitoring

The Commissions provide opportunities for high school students and adults to gain hands-on experience monitoring lakes, streams, and wetlands.

Lakes. Volunteer lake monitoring is performed through the Met Council’s Citizen Assisted Lake Monitoring Program (CAMP). The Met Council provides the monitoring equipment and the laboratory work and data analysis while the Shingle Creek Commission staff recruit and train volunteers to perform sampling, collect the volunteers’ water quality samples, and get them to the Met Council. Schmidt, Magda, Meadow, Eagle, and Pike lakes were monitored by volunteers in 2021.



Streams. Routine stream macroinvertebrate monitoring in both watersheds is conducted by volunteers through Hennepin County’s RiverWatch program. This program was initiated in 1995 to provide hands-on environmental education for high school and college students, promote river stewardship, and obtain water quality information on the streams in Hennepin County. Hennepin County coordinates student and adult volunteers who use the RiverWatch protocols to collect physical, chemical, and biological data to help determine the health of streams in the watershed. One site on Shingle Creek was monitored as part of RiverWatch in 2021 but others were cancelled due to COVID-19.

Wetlands. Two sites in the Shingle Creek watershed and two sites in the West Mississippi watershed were monitored through the Hennepin County Environmental Services’ Wetland Health Evaluation Program (WHEP). WHEP uses trained adult volunteers to monitor and assess wetland plant and animal communities in order to score monitored wetlands on an Index of Biological Integrity for macro-invertebrates and vegetation. No sites were monitored in 2021 due to COVID-19.

Evaluation:

Evaluation of these programs is based on participation.

Program: Collaborative Efforts

Audience: Multiple

Program Goals:

- a. Promote interagency cooperation and collaboration, pool resources to undertake activities in a cost-effective manner, and promote consistency of messages.
- b. Share information and ideas with other partners.

Educational Goals:

- a. All people have a general understanding of watersheds, water resources and the organizations that manage them.
- b. All people understand the connection between actions and water quality and water quantity.

Specific Activities to Reach Goals:

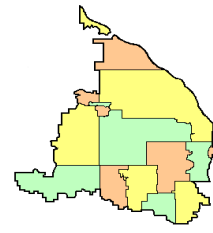
WMWA

The Commissions partner with the Bassett Creek WMO and the Elm Creek WMO and other interested parties as the West Metro Water Alliance (WMWA). Other participating parties have included other WMOs, Hennepin County Environment and Energy, and cities outside the four-watershed area. Each member watershed organization contributes funds to WMWA, which sponsors programs such as Watershed PREP, standardized brochures and booklets, and the *Planting for Clean Water Program*. WMWA publishes an annual report on its activities.

The very popular *10 things you can do to protect Minnesota’s lakes, rivers, and streams* brochure was revised and updated in 2019 and was printed at no cost to WMWA members by the Hennepin County Department of Environment and Energy. It can also be downloaded from the WMWA website.

Other Partnerships

The Commissions are also members of:



- WaterShed Partners, a coalition of agencies, educational institutions, WMOs, Watershed Districts, and Soil and Water Conservation Districts that coordinate water resources education and public outreach planning in the Metro area;
- Blue Thumb, a consortium of agencies and vendors partnering to increase outreach and awareness; and
- NEMO (Nonpoint Education for Municipal Officials), a program that provides educational and skill-building programming to elected and appointed officials and community leaders to increase their knowledge of the connection of land use and management decisions to water quality and natural resources. NEMO was inactive in 2021.

Evaluation:

No specific evaluation of this programing has been completed.

Program: Continuing Education

Audience: Commissioners, Technical Advisory Committee (TAC)

Program Goals:

- a. Effectively and efficiently manage the water resources in the watershed.
- b. Increase awareness and knowledge of broader water resources issues and trends.

Educational Goals:

- a. Commissioners and TAC understand watershed management, water quality and quantity conditions and issues in the watershed, regulatory requirements and the current standards and practices.
- b. Commissioners and TAC aware of broader water management issues and trends in Minnesota and elsewhere.

Specific Activities to Reach Goals:

Staff Presentations

All of the Staff presentations were project-related, none were for “Commissioner education.”

Guest Speakers

Stephen Mastey, Landscape Architects, gave an update on the Crescent Cove Partnership Cost Share project. He and associates from his firm and the Crescent Cove Association returned later in the year to present a pictorial update on the project which is located in Brooklyn Center. The project created a play area at the Crescent Cove Children’s Hospice Facility that is mostly within the 100-year floodplain and converted the adjacent existing non-native landscape to a diverse native plant community that creates an ecologically appropriate wetland buffer.

Representatives from Metro Blooms and Boisclair Corporation provided a pictorial update of Phase I of the Brooks Gardens Partnership Cost Share project. Brooks Gardens is an affordable housing community in Brooklyn. The project consisted of installing a series of rain gardens to capture and infiltrate or treat runoff from impervious surface on site, including roofs, pavement, and a new play area.

Evaluation:

No specific evaluation of this programming has been completed.