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31 4 IMPLEMENTATION PROGRAM

32 This section presents the Implementation Program (Program) for the Plan. The District's Program

- addresses water resources and programmatic issues discussed in Section 2 and applies the goals,
- 34 policies, and strategies addressed in Section 3. The District's Program consists of administrative and
- managerial efforts, coordination, studies, programs, capital improvement projects (CIP_S), and
- 36 funding mechanisms to successfully execute the Plan. Each element is described below. The
- 37 Program schedule and budget are presented in Table 4-1.- This Program was updated in 2022 after
- several studies and CIPs were completed, and the amended Program comprises the years 2023
- 39 <u>through 2027Since this Plan was not completed in time for the 2017 budgeting cycle, this Program</u>
- 40 begins in 2018 and ends in 2027. The Program's estimated impacts on residents and local
- 41 government are presented in the next section. The District will review the implementation program
- 42 every two years, at minimum.

43 4.1 ADMINISTRATIVE AND MANAGERIAL

44 Administrative and managerial efforts will be carried out by the District's administrator. The

45 administrator, and consultants will perform the District's day-to-day operations and implement

46 other elements of the Program, as discussed below. Administrative services also include legal, audit,

- 47 <u>and bookkeeping services, office space, office equipment, office rental, information management</u>
- 48 systems (e.g., computers, copiers, website, etc.), training, and general engineering services. The
- 49 District's general levy finances these efforts.

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Table 4-1: Lower Minnesota River Watershed District - Implementation Program Budget for 202318 - 2027

			<u>Year</u>		
ACTION	2023	2024	2025	2026	2027
EXPENDITURE		•	•	ł	
Administrative and Managerial					
General Administrative Services, Conferences, Coordination with LGUs, Stakeholders and other Project	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000
Partners, LGU Program Reviews, 9-Foot Channel, and Advisory Committees (Technical and Citizen)					
Administrative/Managerial Budget Total	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000
Studies and Programs					
Cost Share Incentive and Water Quality Restoration Program	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Dredge Management	<u>\$240,000</u>	<u>\$240,000</u>	\$240,000	\$126,000	<u>\$240,000</u>
Eagle Creek Bank Restoration at Town & Country RV Park Feasibility Study		<u>\$30,000</u>			
Education and Outreach Program	\$ <u>75,000</u> 30,000	\$ <u>75,000</u> 30,000	\$ <u>75,000</u> 30,000	\$ <u>75,000</u> 40,000	\$ <u>75,000</u> 40,000
Fen Private Land Acquisition Study		<u>\$50,000</u>	\$25,000		
Fen Stewardship and Management Program	\$ <u>75,000</u> 25,000	\$ <u>75,000</u> 25,000	\$ <u>75,000</u> 25,000	\$ <u>75,000</u> 25,000	\$ <u>75,000</u> 25,000
Gully Inventory and Assessment Program	\$90,500	\$150,000	\$150,000	\$150,000	<u>\$150,000</u>
Trout Streams Geomorphic Assessments (Trout Streams)		\$ 50,000<u>100,000</u>	\$50,000		\$100,000
Monitoring Program and Detailed Data Assessments	\$75,000	\$75,000	\$75,000	\$ 100,000 75,000	\$ 100,000 75,000
Project and Permit Reviews	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
Paleo-limnology Study (Floodplain Lakes)		\$50,000			
Implementation of the Sustainable Lake Management Plans (Trout Lakes)		\$50,000	\$50,000		\$50,000
Vegetation Management Plan				\$65,000	
Seminary Fen Ravines Site C-2 and C-3 Feasibility -Studyies	\$20,000	\$40,000			
Spring Creek Site 3 Design Feasibility Study	\$50,000				
Watershed Management Plan				\$50,000	\$100,000
Water Resources Restoration Fund	\$ 125,000 100,000	\$100,000	\$100,000	\$160,000100,000	\$150,000100,000
Studies and Programs Budget Total	<u>\$795,500</u> \$275,000	<u>\$1,055,000</u> \$400,000	<u>\$860,000</u> \$350,000	<u>\$721,000</u> \$410,000	<u>\$1,035,000</u> \$385,000
Capital Improvements					
Assumption Creek Hydrology Restoration Project					
Carver Creek Restoration Project					
Minnesota River Corridor Management Project					
Groundwater Screening Tool Model					
District Boundary Modification Project					
Downtown Shakopee Targeted BMP Feasibility Study					
Dredge Site Restoration Project					
Eagle Creek (East Branch) Project					
East Creek Bank Stabilization Project					
East Creek Water Quality Treatment Project					
Minnesota River Assessment of Ecological and Economic Impacts of Sedimentation	1	\$25,000	\$30,000	\$45,000	\$50,000
Minnesota River Assessment of Water Storage Benefits and Opportunities.		\$30,000	\$25,000	\$45,000	\$50,000
Minnesota River Floodplain Model Feasibility Study		n , • • • •	n , ~ ~ ~		n - ~ , ~ ~ ~ ~
Minnesota River Sediment Reduction Strategy					
Minnesota River Study Area 3 – Bluff Stabilization Project	\$250,000	\$100,000	\$100,000		
Realignment of the Prior Lake Spring Lake Outlet Channel	₩ ~~ 0,000	******	<u>*************************************</u>		
Riley Creek Project – Downstream of Flying Cloud Drive	1				
Schroeder's Acres Park/Savage Hen Stormwater Management Project					
Schroeder's Acres Park/Savage Fen Stormwater Management Project Seminary Fen Restoration Site A					

WATERSHED MANAGEMENT PLAN

2018 - 2027 REVISED JULY 15, 2022

ACTION			Year		
ACTION	2023	2024	2025	2026	2027
Seminary Fen Restoration Site B		\$50,000	\$25,000		
Seminary Fen Ravines Site C-2 and C-3 Design and Construction			\$55,000	\$50,000	\$65,000
Spring Creek Project					
West Chaska Creek Project					
Dredge Site Culvert Replacement				\$51,500	
Eagle Creek Bank Restoration at Town & Country RV Park Project			<u>\$69,800</u>	\$90,200	
Eagle Creek Brown Trout Habitat Improvements Project					<u>\$70,000</u>
Minnesota River Floodplain Modeling	\$75,000				
Shakopee Riverbank Stabilization Project		<u>\$50,000</u>	<u>\$50,000</u>		
Spring Creek Sites 1 and 2 Design and Construction Stabilization Project	<u>47,100</u>	<u>\$100,000</u>	<u>\$100,000</u>	<u>\$70,000</u>	
Spring Creek Vegetation Management Project	<u>\$40,000</u>				
Stormwater BMP at Parking Lot near Lewis Street West and Second Avenue West Project	\$50,000	\$50,000			
Vernon Avenue Upgrade at the Dredge Site				<u>\$62,500</u>	
Capital Improvements Budget Total	<u>\$165,000</u> 212,100\$250,000	<u>\$350,000</u> \$125,000	<u>\$399,800</u> \$175,000	<u>\$324,200</u> \$140,000	<u>\$135,000</u> \$165,000
TOTAL EXPENDITURES	<u>\$1,257,60010,500</u> \$775,000	<u>\$1,655,000</u> \$775,000	<u>\$1,509,800</u> \$775,000	<u>\$1,295,200</u> \$800,000	<u>\$1,420,000</u> \$800,000
General Levy	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000
Planning and Implementation Levy	\$525,000	\$ 525,000 625,000	\$ 525,000<u>650,000</u>	\$ 550,000<u>675,000</u>	\$ 550,000 700,000
Metropolitan Council Grant	\$5,500	\$5,500	<u>\$5,500</u>	<u>\$5,500</u>	\$5,500
Dredge Material Management Grant	<u>\$240,000</u>	<u>\$240,000</u>	<u>\$240,000</u>	<u>\$240,000</u>	<u>\$240,000</u>
WBF - Pilot Funding (Scott)					
WBF - Pilot Funding (Carver)					
WBF - Pilot Funding (Dakota)					
WBF - Pilot Funding (Hennepin)					
Special Channel Maintenance Funding					
Grants	\$100,000	<u>\$100,000</u>	<u>\$100,000</u>	<u>\$100,000</u>	\$100,000
Closed or Unrealized Projects	\$137,100	<u>\$434,500</u>	<u>\$264,300</u>	<u>\$24,700</u>	<u>\$124,500</u>
TOTAL REVENUE	<u>\$1,257,600210,500</u> \$775,000	<u>\$1,655,000</u> \$775,000	<u>\$1,509,800</u> \$775,000	<u>\$1,295,200</u> \$800,000	<u>\$1,420,000</u> \$800,000

4.2 COORDINATION WITH LOCAL, STATE, AND FEDERAL GOVERNMENTS AND NON-GOVERNMENT ORGANIZATIONS

56 This sub_-section implements the District's role as a facilitator. It involves staff coordination with

57 local, state, and federal government and <u>non_-government_non-government</u> organizations,

58 participation in issues discussed during the State of Minnesota Legislative session, and collaboration

59 with the COE to secure federal funds for the Minnesota River $9-\underline{F}$ foot \underline{C} ehannel.

60

Table 4-	2: Coordination Strategies with District Partners	
rateov	Coordination Partner(s)	S

Strategy	Coordination Partner(s)	Schedule
Strategy 1.1.1, 1.2.1, 2.3.1, 2.3.4	LGUs, BWSR, MPCA, Metropolitan Council, SWCDs and neighboring WDs and WMO <u>s</u>	Quarterly at a minimum
Strategy 1.3.3, 2.2.1, 6.1.1-2	LGUs	Annually
Strategy 2.2.3, 2.2.4	LGUs and SWCDs	Annually
Strategy 2.3.1-3, 3.2.1, 4.2.1-3	LGUs, BWSR, MPCA, Metropolitan Council, SWCDs, and neighboring WDs and WMO <u>s</u>	Annually
Strategy 3.3.1	DOH	Annually
Strategy 5.1.2 - 3	LGUs and BWSR	Annually
Strategy 7.1.1	MPCA, LGUs	Annually
Strategy 7.4.1	LGUs, SWCDs and shoreland property owners	Annually
Strategies 8.2.1, 8.2.2, 8.3.1	COE, LGUs	On-going
Strategies 9.1.1-4 and 9.2.1-3	LGUs, TAC, CAC, and SWCDs	On-going, Quarterly

61

62 4.3 STUDIES AND PROGRAMS

63 Studies and programs for the 2023-2027 Implementation Program include the following:

- 64 <u>• Cost S</u>ehare Incentive and Water Quality Restoration Program (All strategies)
- 65 <u>Dredge Management (Strategies 1.1.1, 8.1.2, 8.2.2, and 8.3.1)</u>
- 66 Periodic Assessments and Program Reviews (Strategy 1.3.1)
- 67 Detailed Data Assessments (Strategy 2.3.2)
- Eagle Creek Bank Restoration at Town & Country RV Park Feasibility Study (Strategies 4.2.1 and
 7.4.1)
- **70** Education and Outreach Program (Strategies 1.2.1, 4.2.3, 8.1.1, 9.1.1-4 and 9.2.1-3)
- 71 Fen Private Land Acquisition Study (Strategy 4.3.1)
- 72 Fen Stewardship Program (Strategies 1.1.1 and 2.3.3)
- **73** <u>• Gully Inventory and Assessment Program (Strategy 7.3.1)</u>
- 74 Implementation of the Sustainable Lake Management Plans (Strategies 3.2.1-2 and 3.3.1)
- 75 Monitoring Program and Detailed Data Assessments (Strategies 2.3.1-2 and 3.3.1)

- 76 Project and Permit Reviews (Strategies 1.1.1, 1.3.1., 3.2.2, 4.2.2, and 5.1.3)
- 77 Seminary Fen Restoration Site C-2 Study (Strategies 4.1.1 and 7.4.1)
- 78 Spring Creek Site 3 Design Feasibility Study (Strategy 7.4.1)
- 79 Trout Streams Geomorphic Assessments (Strategies 4.2.1)
- 80 Watershed Management Plan (All Strategies)
- 81 <u>Water Resources Restoration Fund (Strategies 1.1.1, 3.2.1-2, and 3.3.1)</u>
- 82 Vegetation Management Standard/Plan (Strategy 7.2.1)
- 83 Dredge Material Beneficial Use Plan (Strategy 8.2.2)
- 84 9-Foot Channel Strategic Funding Plan (Strategy 8.3.1)
- 85 These studies and programs were introduced and described in Section 3. Budgets for each study and
- 86 program, with expenses beyond staff time, are shown in Table 4-1. These preliminary budgets are
- 87 reviewed and approved annually. Revenue for the operation and management of the District is
- 88 primarily through the District's planning and implementation levy.
- 89 <u>4.3.1 Cost-Share Incentive and Water Quality Restoration Program</u>
- 90 The District values and supports efforts made by residents to help achieve theits goals of the
- 91 <u>District</u>. Through the Cost Share Incentive and Water Quality Restoration Program, the
- 92 District hopes to engage citizens in community actions that protect local lakes, rivers,
- 93 streams, wetlands, and fens. Eligible Aapplicants must meet eligibility criteria and apply to
- 94 and be approved by the Board of Managers. The cost share and incentives will be reviewed
- 95 <u>annually. Program effectiveness will be measured in two ways: 1) by comparing water quality</u>
- 96 trends before and after projects are implemented, and 2) by how many projects are funded
- 97 <u>through the program.</u>

98 <u>4.3.2 Dredge Management</u>

- 99 The District will continue its role as the local sponsor responsible for providing placement sites for
- 100 the Army Corps of Engineers. The purpose is to place dredge material from the Minnesota River
- 101 and maintain a 9-foot-deep river channel. This program includes the identification of locations to
- 102 temporarily store dredge material from the river, private dredge spoil disposal and transfer, and
- 103 <u>other beneficial uses of the dredge material.</u>

104 <u>4.3.3 Eagle Creek Bank Restoration at Town & Country RV Park Feasibility Study</u>

- 105 Signs of hillslope failure have been observed near the campground on Main Branch of Eagle Creek
- 106 which is an added environmental stressor on the stream. The District will assess the eroding banks
- 107 <u>at the campground and determine the urgency for stabilization on Eagle Creek.</u>
- 108 <u>4.3.4 Education and Outreach Program</u>
- 109 The District's education and outreach program consists of maintaining a Citizen Advisory
- 110 <u>Committee, various social media accounts, and outreach to schools, partners, and non-governmental</u>
- 111 organizations. As part of the District's public education and outreach program support is provided

- 112 <u>for the Citizen Advisory Committee that includes preparing monthly meeting agendas and minutes</u>,
- 113 securing educational presentations, reaching out to increase membership, and developing handouts.
- 114 <u>The District's social media accounts are managed and quarterly content calendars developed.</u>
- 115 <u>Interpretive signage has been created for sites in the District with plans for additional signs at</u>
- 116 project and high resources value sites. Outreach to schools, partners, and non-governmental
- 117 organizations focusing on educational support and outreach is conducted annually. Editing and
- **118** <u>updating the District's website is an on-going function.</u>

119 <u>4.3.5 Fen Private Land Acquisition Study</u>

- 120 To preserve and protect fens in the District in perpetuity, the District will map and assess the values
- 121 of adjacent private properties to each fen and work with corresponding municipalities, -to consider
- 122 opportunities to purchase private fen land for conservation. If land acquisition is not feasible, the
- 123 District will consider opportunities to develop agreements with private property owners to ensure
- 124 <u>management of each fen is consistent and comprehensive.</u>

125 <u>4.3.6 Fen Stewardship and Management Program</u>

- 126 The District, in partnership with the DNR and Metropolitan Council, will develop a fen stewardship
- 127 program for the District's fens. The effort will review historical data, assess current conditions, and
- 128 <u>develop a road map for restoration, preservation, and protection of the District's fens. Management</u>
- 129 plans or sustainability reports will be developed for all fens (starting with Seminary Fen and Savage
- 130 Fen) to effectively manage and protect these groundwater-dependent resources.

131 <u>4.3.7 Gully Inventory and Assessment Program</u>

- 132 The District performs routine gully inventories to provide information to municipalities within the
- 133 watershed district on the current conditions of gullies and pipe outfalls; it also identifies new
- 134 locations that may be contributing sediment into the Minnesota River. Once each gully inventory is
- 135 <u>complete, the District will coordinate collaboration sessions with city partners and other potential</u>
- 136 <u>stakeholders to review findings, discuss high-priority sites, and strategize ways to stabilize gullies,</u>
- 137 repair outfalls, and prevent sediment from entering the Minnesota River.

138 <u>4.3.8 Implementation of the Sustainable Lake Management Plans</u>

- 139 In 2019, the District developed Sustainable Lake Management Plans (SLMPs)) were
- 140 <u>developed</u> for trout lakes in the District in 2019 within its boundary. Going forward, the The
- 141 District willplans to implement the recommended management strategies from the SLMPs,
- 142 <u>such as routine vegetation surveys and temperature profiling.</u>

143 <u>4.3.9 Monitoring Program and Detailed Data Assessments</u>

- 144 The District will continue to perform water quantity and quality monitoring of resources
- 145 within the boundaries of the District. The District's Monitoring Plan will be updated to
- 146 <u>include the geochemistry recommendations from the Fens Sustainability Gaps Analysis</u>

- 147 report and the monitoring parameter recommendations from the Quarry Lake Sustainable
- 148 <u>Lake Management Plan report.</u>
- 149 Over the past few years, the District has collected a large quantity of water quality data. The
- 150 Plan includes a preliminary assessment of lake water quality data. However, the last
- 151 <u>comprehensive data evaluation was completed in 2000. Periodic data evaluations are</u>
- 152 <u>necessary to convert data into information that decision makers can use. Data collected for</u>
- 153 <u>each water resource will be evaluated on a 3-year or 5-year cycle. As part of Strategy 1.3.1, all</u>
- 154 <u>water resources within the watershed will be evaluated. An outcome of Strategy 1.3.1 will be</u>
- 155 groupings of water resources into High, Medium, and Low categories for detailed data
- 156 <u>assessments and timetables formulated for each category.</u>

157 <u>4.3.10 Project and Permit Reviews</u>

- 158 Through this permitting process, the District works with property owners and local governments to
- 159 <u>manage and permitregulate activities related to soil erosion and sediment control, floodplain and</u>
- 160 <u>drainage alteration, stormwater management, and development on steep slopes within the</u>
- 161 <u>boundaries of the District. Project and permit reviews will be performed to determine compliance</u>
- 162 with the District's rules and to protect the public's health and welfare, as well as the natural
 162 recourses of the District
- 163 <u>resources of the District.</u>

164 <u>4.3.11 Seminary Fen Restoration Site C-2 Study</u>

- 165 <u>Seminary Fen Ravine Site C-2 is actively discharging sediment into the Seminary Fen Wetland</u>
- 166 <u>Complex. This project will conduct a ravine study to estimate the sediment contribution to the</u>
- 167 <u>Seminary Fen from the C-2 site and provide approaches and cost estimates for correcting the</u>
- 168 <u>erosion problems.</u>

169 <u>4.3.12 Spring Creek Site 3 Design Feasibility Study</u>

- 170 Site 3 at Spring Creek is prioritized as a top at-risk site for erosion; however, a stabilization design
- 171 <u>has not been developed. The District will work with the landowner and the Carver Soil and Water</u>
- 172 Conservation District to conduct a feasibility study to determine the best approach to stabilize the
- 173 <u>area.</u>

174 <u>4.3.13 Trout Streams</u> Geomorphic Assessments

- 175 The <u>trout streams</u> geomorphic assessments will consider changes in trout stream alignment,
- 176 confluence point(s), or geometrybaseflow, geometry, and selected stream reaches-upstream and
- 177 downstream of confluence point(s). Stream width-to-depth ratios, stream bed slope, meander
- 178 pattern, and other bed features shall be modeled according to a stable reference reach. Reference
- 179 reaches are nearby, hydrologically, and geomorphically_-stable stream segments. A reference reach
- 180 could be upstream or downstream, or in a nearby watershed. Assessment of the current and future

- 181 discharge and sediment regimes shall be based on watershed conditions that are above stream or as
- 182 close as possible to the stream. This assessment is generally considered twice during the Plan cycle.

183 <u>4.3.14 Watershed Management Plan</u>

- 184 The District's Watershed Management Plan describes how the District will address water resources
- 185 <u>management over a period of 10 years. The District's current plan will expire in 2027 and will</u>
- 186 require updates to plan the next 10 years of water resources management within the watershed
- 187 <u>district's boundaries.</u>

188 Paleo-limnology Study

189 The District is home to several floodplain lakes. These lakes are inundated with water and sediment
 190 from the Minnesota River. Through this project, the District will analyze sediment cores in two (2)

- from the Minnesota River. Through this project, the District will an
 lakes to understand their quality and rate deposition over time.
- 192 Fen Stewardship Program
- 193 The District, in partnership with the DNR and Metropolitan Council, will develop a fen stewardship
- 194 program for the District's fens. The effort will review historical data, assess current conditions, and
- 195 develop a road map for restoration, preservation, and protection of the District's fens.

196 <u>4.3.15</u> Water Resources Restoration Fund

- 197 This broad-based fund implements Goals 2 and 3, which are to protect, improve, and restore surface
- 198 water and groundwater quality within the District. This program will fund projects sponsored by
- 199 LGUs that reduce urban nonpoint source pollution, improve, and protect groundwater quality, and
- 200 promote surveys and studies of wetlands² (fen) health and management. Program effectiveness will
- 201 be measured in two ways: 1) by comparing water quality trends before and after projects are
- 202 implemented, and 2) by how many projects are funded through the program.
- 203 —

204 4.4 CAPITAL IMPROVEMENT PROJECTS

205 Water management organizations that have adopted a watershed management plan, in accordance

- with M.S. 103B.231, may certify for payment by the counties all or any part of the cost of capital
- 207 improvement projects ($CIP_{\underline{S}}$) contained in the capital improvement program of the Plan. A copy of
- 208 the Plan shall be forwarded to the county boards.

- 209 The District is required to hold a public hearing on the proposed CIP. The public hearing details
- must be published in a legal newspaper once a week for two successive weeks in counties that have
- affected waters and lands. The last publication shall occur not more than 30 days, or less than ten
- 212 (10) days before the hearing. The notice shall state the hearing's time and place, the general nature of
- the proposed improvement, the estimated cost, and the cost improvement's payment method,
- 214 including the cost allocated to each county. At least $\frac{10}{10}$ days before the hearing, the District
- shall send notices by mail to the counties, to each home rule charter, or to each statutory city or
- town located wholly or partly within the District's territory. The District recognizes that failure to
- 217 mail a notice (or <u>failure to provide a notice without have</u> defects in the notice) shall not invalidate
- the proceedings. After the proceedings and assessment statements have been filed with the auditor,
- each affected county shall pay its apportioned share of the project's total cost based on the
- 220 engineer's reports or \underline{m} Managers' order.
- Table <u>4-3</u> contains descriptions and planning level cost estimates for the CIP identified for the
- period between the Plan amendment completed in 2022 adoption of this Plan and the biennial Plan
- 223 review.

Table 4-3: Lower Minnesota River Watershed District – Capital Improvement Projects

Project Name	Project Descriptions	Project Partner	Estimated Cost	Estimated Timeline
Capital Improvement Projects				
Minnesota River Study Area 3 – Bluff Stabilization Project	To address riverbank erosion, we will analyze the design and construction of the Minnesota River at Study Area 3 project in Eden Prairie. A study was completed in October 2008 for the City of Eden Prairie in cooperation with the district. Our project will expand the 2008 study by collecting and analyzing additional data that will extend to the final design, permitting, and construction.	City of Eden Prairie	\$ 350,000 200,000	2022 - <u>2025</u>
<u>Minnesota River Floodplain Modeling</u>	The Lower Minnesota River Floodplain Model Feasibility Study determinedthat the hydrologic and hydraulic modeling commonly used to regulatedevelopment in the floodplain and evaluate Rule C permits are out of date.The hydrologic statistical analysis, based on the USGS streamgage at Jordan,has not been updated in 20 years, missed four of the top ten recorded floodson the Minnesota River and must be re-evaluated to determine the floodflows within the LMRWD reach. Following the hydrologic update, thehydraulic model of the Lower Minnesota River should be comprehensivelyupdated to incorporate recent developments in the floodplain, the revisedflow data, and better data were available to evaluate the flood risk within theLower Minnesota River floodplain. The initial capital investment of updatingthe hydrology and hydraulic model will be followed by annual updates tomaintain the hydraulic model and incorporate the most recent data frommunicipalities and LMRWD permits.	<u>Army Corps of Engineers</u>	<u>\$75,000</u>	<u>2023</u>
Spring Creek Vegetation Management Project	The creek will be prone to further erosion without the added protection of adequate vegetation. Vegetation management (e.g., removal of invasives, native plantings, etc.), particularly in the floodplain and channel banks, will be explored with the property owners.	<u>Carver SWCD</u>	<u>\$40,000</u>	<u>2023</u>
Stormwater BMP at Parking Lot near Lewis Street West and Second Avenue West Project	This stormwater best management practice project will be coordinated with the parking lot rehabilitation near Lewis Street West and Second Avenue West near Pablo's restaurant in Shakopee. The project focuses on providing water quality treatment to untreated stormwater runoff that is routed directly to the Minnesota River.	<u>City of Shakopee</u>	<u>\$750,000 (District's</u> <u>Contribution: \$50,000)</u>	<u>2023 - 2024</u>
Seminary Fen Restoration Site B	A partially drained 17-acre wetland from Falls Curve Road to Old Highway 12, <u>which that is predominantly growing reed canary grass</u> , will be restored. The restoration involves disabling the drainage system and restoring vegetation.	City of Chaska and <u>MN</u> DNR	\$75,000	2024 - 2025
Shakopee Riverbank Stabilization Project	This project will include stabilizing sections of the Minnesota River riverbank that are eroding along the City of Shakopee's parallel trunk sanitary sewer line that flows to L-16 and other storm sewer outlets.	<u>City of Shakopee</u>	<u>\$5,280,000 (District's</u> contribution: \$100,000)	<u>2024 – 2025</u>
Spring Creek Site 1 and 2 Stabilization Project	After the vegetation management project is complete, Site 1 and Site 2 along Spring Creek will be stabilized using the Carver SWCD's designs (increased riprap size and standard gradation recommended).	<u>Carver SWCD</u>	<u>\$270,000</u>	<u>2024 - 2026</u>
Eagle Creek Bank Restoration at Town & Country RV Park Project	The District will develop a design and stabilize the hillslope failure near the campground on Main Branch of Eagle Creek to reduce sedimentation to the creek.	MNDNR, City of Savage	<u>\$160,000</u>	<u>2025 - 2026</u>

2018 - 2027

<u>REVISED JULY 15, 2022</u>

Project Name	Project Descriptions	Project Partner	Estimated Cost	Estimated Timeline
Seminary Fen Ravines Site C-2 and C-3 Design and Construction	The final design and construction will be done for the Ravine Sites C-2 and C-3, which are discharging sediment into the Seminary Fen Wetland Complex.	City of Chaska and DNR	\$170,000	2025 - 2027
Dredge Site Culvert Replacement	<u>A culvert near the site entrance needs to be removed and replaced. The</u> District will work with the Army Corps of Engineers to perform the culvert replacement.	Army Corps of Engineers	<u>\$51,500</u>	2026
Vernon Avenue Upgrade at the Dredge Site	Approximately two-thirds of a mile of Vernon Avenue (from Hwy 13 to the site entrance) requires upgrading to allow for increased truck traffic. The District will coordinate with the Army Corps of Engineers to upgrade Vernon Avenue.	Army Corps of Engineers	<u>\$62,500</u>	2026
<u>Eagle Creek Brown Trout Habitat Improvements</u> <u>Project</u>	Background research indicates the East Branch historically has been able to support a more reliable brown trout population despite having some of the worst habitat conditions in the watershed. The District will complete habitat improvements in the East Branch to support brown trout populations.	<u>MNDNR, USFWS</u>	<u>\$70,000</u>	<u>2027</u>
Assumption Creek Hydrology Restoration Project	Assumption Creek is a trout stream, so it is important to maintain the temperature of groundwater discharge. According to the City of Chaska, portions of the creek dry out periodically. It is unknown exactly what has reduced the hydrology of the creek. It may have been the U.S. Army Corps of Engineers' historic creek rerouting for the brick factory, road construction, or other development effects. The project described here will evaluate the opportunities available to resupply the groundwater hydrology to the creek.	City of Chaska and DNR	\$30,000	2019
Carver Creek Restoration Project	This will include stabilizing the outer bends with toe protection, grading banks to a more stable slope, and stabilizing the gully.	City of Carver, Carver WMO, Carver County SWCD and USFWS	\$95,000	2019 - 2020
Minnesota River Corridor Management Project	Using the Minnesota River as a focal point, this project will examine issues facing the river's complex natural system, a shared resource and a place where varied interests and other systems converge. We seek to (1) create greater understanding of the Lower Minnesota River Corridor and its landscape, (2) demonstrate a desired future for the river and how change in the surrounding landscape can help attain this future, (3) suggest a structure or framework by which the vision can be implemented, and (4) identify shared community and public values that form the basis of the project. (This design is modeled after the Vermillion River Corridor Plan.)	All District LGUs	\$100,000	2020 2021
Groundwater Screening Tool Model	The District will develop a district specific groundwater model that can be used as a preliminary screening tool for the evaluation of groundwater appropriation requests related to four fens within the district (Black Dog, Fort Snelling, Nicols, and Quarry Island). The goal of the model is to define the approximate extent of the recharge zones for the fens and provide a method for evaluating whether the proposed groundwater withdrawals may cause significant decline in head at one or more of the referenced fens.	ÐNR	\$150,000	2018 - 2020

2018 - 2027

<u>REVISED JULY 15, 2022</u>

Project Name	Project Descriptions	Project Partner	Estimated Cost	Estimated Timeline
District Boundary Modification Project	District staff will work with BWSR and the neighboring watershed districts and water management organizations to review and possibly modify the district's jurisdictional boundary.	BWSR, Carver County WMO, and Riley – Purgatory Bluff Creek WD	\$10,000	2018
Downtown Shakopee Targeted BMP Feasibility Study	A feasibility study will be done in downtown Shakopee to identify opportunities for implementing the targeted best management practices.	City of Shakopee	\$50,000	2022
Dredge Site Restoration Project	This project consists of implementing the site restoration project identified in the February 15, 2017, <i>Estimate of Probable Cost, Cargill East River (MN-14.2</i> <i>RMP) Dredge Material Site</i> technical memorandum prepared by Burns & McDonnell, Young Environmental Consulting Group, LLC, and Berrini & Associates, LLC, for the Cargill East River (MN – 14.2 RMP) Dredge Material Site located on the Minnesota River in Savage, Minnesota.	BWSR	\$480,000	2018 - 2019
Eagle Creek (East Branch) Project	This project will restore approximately 2,400 feet of stream and repair erosion under the 128th Street Bridge. The goals of the project are to reduce erosion and improve fish habitat. Due to beaver dams, the stream cuts into three valley walls, contributing to significant deposits of sediment.	DNR, MN Trout Unlimited and City of Savage.	\$20,000	2018 2019
East Creek Bank Stabilization Project	Identified in the East Chaska Creek Restoration feasibility study, the scour hole downstream of Crosstown Boulevard Bridge will be repaired, bank armoring installed, toe protection and grade control structures added behind Cuzzy's Brickhouse Restaurant, and bank armoring and toe protection installed on the right bank of East Oak Street.	City of Chaska, MPCA and BWSR	\$50,000	2019
East Creek Water Quality Treatment Project	This feasibility study reports that the ideal site to construct a treatment wetland was south of the creek in two vacant lots along Chaska Boulevard. Most lots there are paved right up to the edge of the creek bank. The flow could be diverted from the creek channel into a stormwater treatment system to provide for sediment removal, flood storage, and bacteria treatment.	City of Chaska and MPCA	\$75,000	2019 - 2020
Minnesota River Assessment of Ecological and Economic Impacts of Sedimentation	This project will examine sedimentation in the Lower Minnesota River Watershed including monitoring, modeling, and analyzing sediment sources, sinks, and pathways in the watershed; summarizing how sources, sinks, and pathways may have changed; and estimating the economic and ecological effects of sedimentation. The project team will look at how sedimentation (1) changes the stage-discharge relationships that may cause flooding, (2) generates costs to maintain a commercial navigation channel on the Minnesota River, and (3) affects the watershed with its ecological conditions. Through these analyses, a new baseline can be established, and an understanding created of how changes in land use will alter the watershed baseline and create a new condition.	BWSR and Army Corps of Engineers	\$150,000	2024—2027

Project Name	Project Descriptions	Project Partner	Estimated Cost	Estimated Timeline
Minnesota River Assessment of Water Storage Benefits and Opportunities.	Using the Agricultural Conservation Planning Framework (ACPF) and the Prioritize, Target, and Measure Application (PTMApp), we will determine if a flow reduction would benefit from the placement of storage measures in key locations throughout the basin. This analysis will help us understand if the threshold for meaningful change can be realized to recommend specific levels of storage in the basin. The analysis is needed to accomplish the desired outcomes: (1) hydro-correct DEMs for the lower watershed where storage impacts are desired, (2) run ACPF on priority sub-basins to determine where storage opportunities exist, (3) develop a detailed hydrologic model if one does not exist, (4) run existing and storage scenarios to determine if the amount of the discharges could be lowered for hypothetical rainfall events ranging from 10-year to 100-year events, and (5) summarize the saturation of storage and the maximum change anticipated in the specific agro-ecoregion.	MPCA and BWSR	\$150,000	2025 - 2027
Minnesota River Floodplain Model Feasibility Study	We will review the existing Minnesota River floodplain model to determine if updates are required.	DNR, Army Corps of Engineers, and all LGUs within the District	\$30,000	2019
Minnesota River Sediment Reduction Strategy	This project team will collaborate with the MPCA in developing strategies for evaluating and mitigating sediment loads going into the Minnesota River.	MPCA and BWSR	\$40,000	2018 - 2019
Realignment of the Prior Lake Spring Lake Outlet Channel	This project will place additional capacity and control structures in the channel to handle increased runoff that is draining into the channel because of developments.	City of Shakopee	\$100,000	2021 2022
Riley Creek Project – Downstream of Flying Cloud Drive	The project will provide an energy dissipation below the County Road 61/ Flying Cloud Drive bridge and redirect flows away from outside the creek meanders.	Hennepin County	\$75,000	2018 - 2019
Schroeder's Acres Park/Savage Fen Stormwater Management Project	This project will evaluate options for incorporating storm-water wetland and irrigation reuse systems on the site and address phosphorous, temperature, metals, E. coli and runoff volume in Eagle Creek.	City of Savage and DNR	\$220,000	2019 - 2020
Seminary Fen Restoration Site A	At the intersection of Engler and Audubon in Chaska, Minnesota, 3.61 acres of wetland will be purchased and restored. This site is dominated by reed canary grass and offers the greatest threat to the rare plants of the Seminary Fen Wetland Community. The site is next to a 6-acre wetland that was restored by the City of Chaska in partnership with the DNR.	City of Chaska and DNR	\$75,000	2021
Seminary Fen Ravines Site C-2 and C-3 Studies	Seminary Fen Ravine Sites C-2 and C-3 are actively discharging sediment into the Seminary Fen Wetland Complex. This project will conduct a ravine study to estimate sediment contribution to the Seminary Fen from sites C-2 and C-3 and provide approaches and cost estimates for correcting the crosion problems.	City of Chaska and DNR	\$60,000	2024 - 2025
Potential Projects - Unfunded				
SSTS Direct Discharge Incentives	In 2007, the county board established a cost-share program to accelerate the elimination of direct discharge SSTS. The approved TMDLs for Carver and Bevens Creeks identified that some of the feeal coliform entering those water bodies was from direct discharge and (failing) septic systems. The	Carver County, CCWMO	\$150,000	
VATERSHED MANAGEMENT PLAN	4-16			2018 - 2027

Project Name	Project Descriptions	Project Partner	Estimated Cost	Estimated Timeline
	program offers direct incentives and low-interest loans to landowners to fix these systems, which are mainly concentrated in rural and agricultural areas in the county. The program is responsible for the entire county, except the			
	City of Chanhassen, which has its own program.			
Frout Stream #4 Restoration	The DNR and MN Trout Unlimited are considering rehabilitating a trout			
	stream near the Cedar Bridge area. These efforts are to keep the stream			
		DNR, MN Trout Unlimited, City of Burnsville	\$10,000	2018
Bluff Area Risk Analysis				
			#FO O O O	2010
		City of Burnsville	\$50,000	2018
CH 51 & CH 52 Culvert Perlegement				
th 51 & Ch 55 Curvent Replacement				
	be replaced by coupty maintenance forces. CH 51: between CH 1 and gravel	Scott County	\$668,000	2018
Resiliency Assessment of Major Drainage Systems			\$10,000 \$50,000	
nd Improvements	systems to identify areas where failure of major drainage systems would			
I		City of Burnsville	\$390,000	2018 - 19
		5		
	planning future improvements.			
Fransportation Capital Improvement Plan	This plan includes storm sewer system repair in Dakota County and the			
	cities within it. Transportation infrastructure should be more	Dakota County, Applicable LGUs	\$2,500,000	2018-2022
	environmentally sensitive.			
arks and Greenways Capital Improvement Plan	This plan advances natural resource protection and restoration of the park			
	and greenway system. In addition to managing 2,280 acres of land that have			
		Dakota County	<u>\$1 023 000</u>	2018-2022
		Dalou County	\$°1,020,000	
and Conservation Capital Improvement Plan	Project Name Project Name Destinated Cost T integrant effect destinations of the mission material main and appealuation stress in the compare, which are mainly encounce the information of the mission material stress in the compare, burgenant iteration material stress in the compare, burgenant iteration material stress in the compare, burgenant iteration material stress integrant effect destinations of the mission material stress integrant effect destination of the mission of the mission material destination in the mission of the mission of the mission material destination in the mission of the mission of the mission of the mission of the mission destination of the mission of the mis			
			\$10,000 \$10,000 \$50,000 \$668,000 \$390,000 \$2,500,000 \$1,023,000 \$11,335,000 \$11,335,000 \$11,335,000	
		Dakota County, State of MN, Environmental Legacy Fund	\$11,335,000	2018-2022
Celler Lake to Minnesota River Hydrologic and	This analysis of the chain of water bodies that starts at Keller Lake and ends			
Ivdraulic Analysis and Report			*	
-,		City of Burnsville	\$75,000	2019
Blakeley Bluffs Ravine Stabilization, Phase 1				
		Crath Crath Class W/ s	¢100.000	0010 0000
	several ravines. It appears the current rate of erosion is causing	Scott County, Clean Water	\$100,000	2019-2020
	sedimentation and pollution of the dry creek bed leading to the Minnesota			

Project Name	Project Descriptions	Project Partner	Estimated Cost	Estimated Timeline
	River. Further erosion has the potential to cut further into the bluff top			
	areas, potentially encroaching on areas designated for future park use.			
	Further understanding of the issue is needed to determine an appropriate			
	response. Stabilization measures are likely needed to slow down the erosion			
	currently taking place.			
avine Restoration	This analysis of ravines will target those most in need of maintenance and			
	then fund their repair to prevent loss of soils, retaining property values and	City of Burnsville	\$1,000,000	2019 2021
	reducing off site deposit of these soils.			
Vetland Mitigation Bank	Wetland credits are needed for projects that are not eligible for the BWSR			
0	Local Road Wetland Replacement Program. The program does not provide			
	mitigation for impacts due to trails or capacity-only construction projects.			
	These types of improvements require the purchase of wetland banking			
	credits on the open market or on-site mitigation. This project will work with			
	several sites and potential property owners where wetland restoration is	Scott County, State of MN	\$795,000	2019-2023
	feasible and cost-effective to develop a wetland restoration project. If			
	easements on suitable sites can be secured, construction could occur in the			
	same year, and some credits could be released for use by the county as soon			
	as as-built plans are prepared and certified.			
	This is a high-priority project for the WMO. It's willing to lead, finance, or			
alisbury Hill (CR 51) Ravines				
	provide incentives for this project. Unstable ravines are contributing large			
	amounts of sediment to the Minnesota River and affecting county road			
	maintenance. This project was included as a CIP in the previous plan but has			
	been delayed because of changing priorities from the 2014 disaster and the	Scott County WMO	\$750,000-\$1,500,000	2019-2026
	need to wait for decisions about the future of roads in the area. The			
	schedule is currently unknown because we are waiting for decisions about			
	roads in the area.			
laha Ravine/Chestnut Ravine	These ravine stabilization projects have been discussed with the City of Belle			
lana Kavine/ Chestnut Kavine	Plaine in the past; they have now included it as an official request in the			
	letter of issues submitted to the Scott WMO at the start of the plan update			
	ietter of issues submitted to the scott wive at the start of the plan update			
	The Sect WMO estructure that this will be a substant			
	process. The Scott WMO acknowledges that this will have some pollutant-	Scott County, Belle Plaine, Scott WMO	\$102,000	2019-2026
	process. The Scott WMO acknowledges that this will have some pollutant- loading reduction to the Minnesota River, but the reduction is small	Scott County, Belle Plaine, Scott WMO	\$102,000	2019-2026
	process. The Scott WMO acknowledges that this will have some pollutant- loading reduction to the Minnesota River, but the reduction is small compared to the whole basin; thus, it is listed as a Tier 2 project. The City of	Scott County, Belle Plaine, Scott WMO	\$102,000	2019-2026
	process. The Scott WMO acknowledges that this will have some pollutant- loading reduction to the Minnesota River, but the reduction is small	Scott County, Belle Plaine, Scott WMO	\$102,000	2019-2026
	process. The Scott WMO acknowledges that this will have some pollutant- loading reduction to the Minnesota River, but the reduction is small compared to the whole basin; thus, it is listed as a Tier 2 project. The City of	Scott County, Belle Plaine, Scott WMO	\$102,000	2019-2026
	process. The Scott WMO acknowledges that this will have some pollutant- loading reduction to the Minnesota River, but the reduction is small compared to the whole basin; thus, it is listed as a Tier 2 project. The City of Belle Plaine will lead the project.This analysis of the MRQ's overall stormwater management system needs	Scott County, Belle Plaine, Scott WMO	\$102,000	2019-2026
	process. The Scott WMO acknowledges that this will have some pollutant- loading reduction to the Minnesota River, but the reduction is small compared to the whole basin; thus, it is listed as a Tier 2 project. The City of Belle Plaine will lead the project. This analysis of the MRQ's overall stormwater management system needs will accommodate future development. The report will guide the review of	-		
	process. The Scott WMO acknowledges that this will have some pollutant- loading reduction to the Minnesota River, but the reduction is small compared to the whole basin; thus, it is listed as a Tier 2 project. The City of Belle Plaine will lead the project. This analysis of the MRQ's overall stormwater management system needs will accommodate future development. The report will guide the review of future developments in the MRQ to optimize the location of future	Scott County, Belle Plaine, Scott WMO City of Burnsville	\$102,000 \$50,000	2019-2026
	process. The Scott WMO acknowledges that this will have some pollutant- loading reduction to the Minnesota River, but the reduction is small compared to the whole basin; thus, it is listed as a Tier 2 project. The City of Belle Plaine will lead the project. This analysis of the MRQ's overall stormwater management system needs will accommodate future development. The report will guide the review of future developments in the MRQ to optimize the location of future stormwater management facilities.	-		
loodplain Study and Report	process. The Scott WMO acknowledges that this will have some pollutant- loading reduction to the Minnesota River, but the reduction is small compared to the whole basin; thus, it is listed as a Tier 2 project. The City of Belle Plaine will lead the project.This analysis of the MRQ's overall stormwater management system needs will accommodate future development. The report will guide the review of future developments in the MRQ to optimize the location of future stormwater management facilities.Multiple projects are underway around Courthouse Lake to restore both the	City of Burnsville	\$50,000	2022
loodplain Study and Report	process. The Scott WMO acknowledges that this will have some pollutant- loading reduction to the Minnesota River, but the reduction is small compared to the whole basin; thus, it is listed as a Tier 2 project. The City of Belle Plaine will lead the project. This analysis of the MRQ's overall stormwater management system needs will accommodate future development. The report will guide the review of future developments in the MRQ to optimize the location of future stormwater management facilities.	-		2022
loodplain Study and Report	process. The Scott WMO acknowledges that this will have some pollutant- loading reduction to the Minnesota River, but the reduction is small compared to the whole basin; thus, it is listed as a Tier 2 project. The City of Belle Plaine will lead the project.This analysis of the MRQ's overall stormwater management system needs will accommodate future development. The report will guide the review of future developments in the MRQ to optimize the location of future stormwater management facilities.Multiple projects are underway around Courthouse Lake to restore both the	City of Burnsville	\$50,000	2022
loodplain Study and Report ourthouse Lake Native Restoration	process. The Scott WMO acknowledges that this will have some pollutant- loading reduction to the Minnesota River, but the reduction is small compared to the whole basin; thus, it is listed as a Tier 2 project. The City of Belle Plaine will lead the project.This analysis of the MRQ's overall stormwater management system needs will accommodate future development. The report will guide the review of future developments in the MRQ to optimize the location of future stormwater management facilities.Multiple projects are underway around Courthouse Lake to restore both the shoreline and turfed areas to a native setting.A feasibility study is currently underway to produce a management plan for	<u>City of Burnsville</u> <u>Carver SWCD, CCWMO</u>	\$50,000 \$75,000	2022 <u>2023 - 2027</u>
loodplain Study and Report Courthouse Lake Native Restoration ig Woods and Hazeltine Lake Goldfish	process. The Scott WMO acknowledges that this will have some pollutant- loading reduction to the Minnesota River, but the reduction is small compared to the whole basin; thus, it is listed as a Tier 2 project. The City of Belle Plaine will lead the project.This analysis of the MRQ's overall stormwater management system needs will accommodate future development. The report will guide the review of future developments in the MRQ to optimize the location of future stormwater management facilities.Multiple projects are underway around Courthouse Lake to restore both the shoreline and turfed areas to a native setting.A feasibility study is currently underway to produce a management plan for goldfish control on Big Woods and Hazeltine Lakes. Depending on the	City of Burnsville	\$50,000	2022 <u>2023 - 2027</u>
Ainnesota River Quadrant (MQR) Stormwater and loodplain Study and Report Courthouse Lake Native Restoration ig Woods and Hazeltine Lake Goldfish Ianagement Program	process. The Scott WMO acknowledges that this will have some pollutant- loading reduction to the Minnesota River, but the reduction is small compared to the whole basin; thus, it is listed as a Tier 2 project. The City of Belle Plaine will lead the project.This analysis of the MRQ's overall stormwater management system needs will accommodate future development. The report will guide the review of future developments in the MRQ to optimize the location of future stormwater management facilities.Multiple projects are underway around Courthouse Lake to restore both the shoreline and turfed areas to a native setting.A feasibility study is currently underway to produce a management plan for goldfish control on Big Woods and Hazeltine Lakes. Depending on the outcomes of the study, long term management will follow the outline	<u>City of Burnsville</u> <u>Carver SWCD, CCWMO</u>	\$50,000 \$75,000	2022 <u>2023 - 2027</u>
loodplain Study and Report Courthouse Lake Native Restoration ig Woods and Hazeltine Lake Goldfish Janagement Program	process. The Scott WMO acknowledges that this will have some pollutant- loading reduction to the Minnesota River, but the reduction is small compared to the whole basin; thus, it is listed as a Tier 2 project. The City of Belle Plaine will lead the project.This analysis of the MRQ's overall stormwater management system needs will accommodate future development. The report will guide the review of future developments in the MRQ to optimize the location of future stormwater management facilities.Multiple projects are underway around Courthouse Lake to restore both the shoreline and turfed areas to a native setting.A feasibility study is currently underway to produce a management plan for goldfish control on Big Woods and Hazeltine Lakes. Depending on the outcomes of the study, long term management will follow the outline provided in this study.	<u>City of Burnsville</u> <u>Carver SWCD, CCWMO</u> <u>MNDNR, CCWMO</u>	\$50,000 \$75,000 \$100,000	<u>2022</u> <u>2023 - 2027</u> <u>2023 - 2027</u>
loodplain Study and Report ourthouse Lake Native Restoration ig Woods and Hazeltine Lake Goldfish	process. The Scott WMO acknowledges that this will have some pollutant- loading reduction to the Minnesota River, but the reduction is small compared to the whole basin; thus, it is listed as a Tier 2 project. The City of Belle Plaine will lead the project.This analysis of the MRQ's overall stormwater management system needs will accommodate future development. The report will guide the review of future developments in the MRQ to optimize the location of future stormwater management facilities.Multiple projects are underway around Courthouse Lake to restore both the shoreline and turfed areas to a native setting.A feasibility study is currently underway to produce a management plan for goldfish control on Big Woods and Hazeltine Lakes. Depending on the outcomes of the study, long term management will follow the outline	<u>City of Burnsville</u> <u>Carver SWCD, CCWMO</u>	\$50,000 \$75,000	2022 <u>2023 - 2027</u>

\$750 ,000 -\$1,500,000	2019-2020
\$102,000	2019-2026
\$50,000	<u>2022</u>
<u>\$75,000</u>	<u>2023 - 2027</u>
<u>\$100,000</u>	<u>2023 - 2027</u>
<u>\$332,000</u>	<u>2023 - 2027</u>
	2018 - 2027

Project Name	Project Descriptions	Project Partner	Estimated Cost	Estimated Timeline
	during period of high flow. Potential project areas will be identified and implemented in coordination with City of Chaska's Creek Rd redevelopment projects.			
Stormwater Pollutant Reduction in Untreated and Undertreated Urban Areas - East Chaska Creek Chain of Lakes	The District and Carver WMO will work with City of Chaska to identify areas where additional stormwater treat will provide additional nutrient removal within the East Chaska Creek Chain of Lakes Watershed. Priority will be given to project that provide TP reductions to help meet TMDL goals for impaired waters of Hazeltine, Jonathon, and McKnight Lakes.	<u>City of Chaska, CCWMO</u>	<u>\$100,000</u>	<u>2023 - 2027</u>
East Chaska Creek Chain of Lakes Ravine Stabilizations	Ravines draining to the Chain of Lakes are contributing both sediment and phosphorus to the lake. These projects will stabilize slopes and manage stormwater discharge to reduce the amount of sediment reaching adjacent lakes.	<u>City of Chaska, CCWMO</u>	<u>\$150,000</u>	<u>2023 - 2027</u>
W Chaska Ravine Stabilizations	Ravines ultimately draining to the Minnesota River are contributing both sediment and phosphorus to the river. These projects will stabilize slopes and manage stormwater discharge to reduce the amount of sediment discharging downstream.	<u>City of Chaska, CCWMO</u>	<u>\$200,000</u>	<u>2023 - 2027</u>
W Chaska Wetland Preservation and Enhancements	<u>Future development of this area of Chaska may provide opportunities for</u> wetland preservation or enhancements. Priority for project locations will be based upon the Wetland Restoration Assessment of the 2020 Water Plan.	City of Chaska, CCWMO	<u>\$100,000</u>	<u> 2023 - 2027</u>
ig Woods Lake Gully Restoration	One ravine has been identified as a potential project site to restore. <u>Restoration will reduce the amount of sediment and phosphorus that will</u> reach Big Woods Lake.	<u>City of Chaska, CCWMO</u>	<u>\$150,000</u>	2023 - 2027
ower Minnesota River Sediment Analysis	Previous analysis of how sedimentation has changed in the floodplain of the Lower Minnesota River has involved using pollen assemblages to date horizons. However, further analysis is required to confirm that the interpreted horizons are correct. The District will use dating of the stored core material to date the sediment to provide a more accurate understanding of sedimentation in the floodplain.	<u>Freshwater Society, U of M</u>	<u>\$12,500</u>	<u>2024</u>
Minnesota River Assessment of Ecological and Minnesota River Assessment of Ecological and Minnesota River Assessment of Sedimentation Minnesota River Assessment of Sedimentation In ad conservation In ad conservation Minnesota River Assessment of Water Storage Usin Minnesota River Assessment of Water Storage Prior Minnesota River Assessment of Water Storage Prior Minnesota River Assessment of Water Storage Prior Minnesota River Assessment of Water Storage Prior	This project will examine sedimentation in the Lower Minnesota River Watershed by monitoring, modeling, and analyzing sediment sources, sinks, and pathways in the watershed; summarizing how sources, sinks, and pathways may have changed; and estimating the economic and ecological effects of sedimentation. The project team will look at how sedimentation (1) changes the stage-discharge relationships that may cause flooding, (2) generates costs to maintain a commercial navigation channel on the Minnesota River, and (3) affects the ecological conditions of the watershed. Through these analyses, a new baseline could be established, and an understanding created of how changes in land use alter the watershed baseline and create a new condition.	<u>Army Corps of Engineers</u>	<u>\$162,500</u>	<u>2024 - 2027</u>
	In addition, the District will pursue upstream flow management that is consistent with recommendations of the NCED group using the Management Option Simulation Tool (MOSM) in the Le Sueur watershed and similar approaches in other watersheds to mitigate this issue.Using the Agricultural Conservation Planning Framework (ACPF) and the Prioritize, Target, and Measure Application (PTM app), we will determine whether a flow reduction would benefit from the placement of storage measures in key locations throughout the basin. This analysis will help us	Army Corps of Engineers	<u>\$150,000</u>	<u>2024 - 2027</u>
ATERSHED MANAGEMENT PLAN	4-19			2018 - 2027

Solder Index with water supplied by the stormwater point in treatment at Schroulder's Acress Park Alum Treatment The City of Savage proposes to conduct a alum treatment at Schroulder's Acress This weaking presents to conduct an alum treatment at Schroulder's Acress This weaking presents to conduct an alum treatment at Mc BP-Nelson City of Savage \$35,600 2024 - 2027 In be City of Savage proposes to conduct an alum treatment at Mc BP-Nelson City of Savage \$35,600 2024 - 2027 In be City of Savage proposes to conduct an alum treatment at Mc BP-Nelson City of Savage \$35,600 2024 - 2027 In Be City of Savage proposes to conduct an alum treatment at Mc BP Nelson City of Savage \$35,000 2024 - 2027 In Be City of Savage proposes to conduct an alum treatment at Mc BP Nelson City of Savage \$35,000 2024 - 2027 In Be City of Savage proposes to conduct an alum treatment at Mc BP Nelson City of Savage \$3668,000 2024 - 2027 In Be Port Mericity De Lide City of Savage to Port City of Savage to Port City of Savage to Port City of Savage \$3668,000 2024 - 2027 I 13 Stormwater Structure This proposed project consist of instilling an underground stormwater City of Savage \$260,100 2024 - 2027 I 13 Stormwater Structure This proposed project consistof instilling an underground City o	Project Name	Project Descriptions	Project Partner	Estimated Cost	Estimated Timeline
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Parkway Bank StabilizationParkway bridge crossing the East Branch of Eagle Creek. The creek is currently estimated to be eroding an average of 2 inches per year, which could deposit approximately 8,600 lbs. of sediment into the creek annually.City of Savage\$106,002024 - 2027wington Pond Filtration BenchThis proposed project consists of an intensive pond restoration plan for the basins on the City-owned parcel at Ensign Ave and 125th St W. A filtration bench would be placed between the existing ponds to provide additional treatment to a large portion of residential and upstream drainage areas.City of Savage\$315,2002024 - 2027eserve Trail Stormwater StructureThis proposed project would install an underground stormwater treatment structure on the western portion of a parcel owned by the Savage EconomicCity of Savage\$558,3002024 - 2027		treated by the City of Savage.			
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Currently estimated to be eroding an average of 2 inches per year, which could deposit approximately 8,600 lbs. of sediment into the creek annually.This proposed project consists of an intensive pond restoration plan for the basins on the City-owned parcel at Ensign Ave and 125th St W. A filtration bench would be placed between the existing ponds to provide additional treatment to a large portion of residential and upstream drainage areas.City of Savage\$315,2002024 - 2027eserve Trail Stormwater StructureThis proposed project would install an underground stormwater treatment structure on the western portion of a parcel owned by the Savage EconomicCity of Savage\$558,3002024 - 2027	Early Court Deplement Deple Statistics	Parkway bridge crossing the East Branch of Eagle Creek. The creek is		\$10C 00	2024 2027
This proposed project consists of an intensive pond restoration plan for the basins on the City-owned parcel at Ensign Ave and 125th St W. A filtration bench would be placed between the existing ponds to provide additional treatment to a large portion of residential and upstream drainage areas.City of Savage\$315,2002024 - 2027eserve Trail Stormwater StructureThis proposed project would install an underground stormwater treatment structure on the western portion of a parcel owned by the Savage EconomicCity of Savage\$558,3002024 - 2027	Lagie Creek Parkway Bank Stabilization	currently estimated to be eroding an average of 2 inches per year, which	<u>City of Savage</u>	<u>\$106,00</u>	<u> 2024 - 2027</u>
basins on the City-owned parcel at Ensign Ave and 125th St W. A filtration bench would be placed between the existing ponds to provide additional treatment to a large portion of residential and upstream drainage areas.City of Savage\$315,2002024 - 2027eserve Trail Stormwater StructureThis proposed project would install an underground stormwater treatment structure on the western portion of a parcel owned by the Savage EconomicCity of Savage\$358,3002024 - 2027		could deposit approximately 8,600 lbs. of sediment into the creek annually.			
bench would be placed between the existing ponds to provide additional treatment to a large portion of residential and upstream drainage areas. City of Savage \$315,200 2024 - 2027 eserve Trail Stormwater Structure This proposed project would install an underground stormwater treatment structure on the western portion of a parcel owned by the Savage Economic City of Savage \$315,200 2024 - 2027	Covington Pond Filtration Bench		City of Sayage		
Dench would be placed between the existing ponds to provide additional treatment to a large portion of residential and upstream drainage areas. This proposed project would install an underground stormwater treatment structure on the western portion of a parcel owned by the Savage Economic City of Savage \$2024 - 2027				\$315 200	2024 2027
eserve Trail Stormwater Structure <u>This proposed project would install an underground stormwater treatment</u> <u>structure on the western portion of a parcel owned by the Savage Economic</u> <u>Structure on the western portion of a parcel owned by the Savage Economic</u> <u>Structure on the western portion of a parcel owned by the Savage Economic</u>			City of Savage	<u>\$313,200</u>	<u> 2024 - 2027</u>
structure on the western portion of a parcel owned by the Savage Economic <u>\$558,300</u> <u>2024 - 2027</u>					
structure on the western portion of a parcel owned by the Savage Economic	Dresserve Trail Stormwater Structure		City of Savago	\$558 300	2024 2027
TERSHED MANAGEMENT PLAN 2018 2027		structure on the western portion of a parcel owned by the Savage Economic	City of Savage	<u>\$330,300</u>	<u>2024 - 2027</u>
	ATERSHED MANAGEMENT PLAN	4-20			2018 - 2027

Project Name	Project Descriptions	Project Partner	Estimated Cost	Estimated Timeline
	Development Authority. The structure would provide treatment to over 17 acres of residential runoff prior to it entering the large storm basin in the business park.			
Carver Creek Gully Stabilization	The District will collaborate with the Carver WMO to stabilize a large gully on Carver Creek in Dahlgren Township (Section 26).	Carver SWCD, NRCS, CCWMO	<u>\$40,000</u>	<u>2025</u>
Dahlgren Road Stormwater Retrofit	The District will collaborate with the Carver WMO to address stormwater issues along Dahlgren Road west of County Road 11. Stormwater from the road surface currently drains untreated to Timber Creek, a tributary of Carver Creek.	Dahlgren Township, City of Carver, CCWMO	<u>\$40,000</u>	<u>2025</u>
Grace Lake Ravine Stabilizations	Ravines on the northwest side of Lake Grace are contributing both sediment and phosphorus to the lake. These projects will stabilize and reduce the amount of sediment reaching Lake Grace.	<u>City of Chaska, CCWMO</u>	<u>\$300,000</u>	<u>2025 - 2027</u>
East Chaska Creek Chain of Lakes Reclamation - Phase 2	The District will collaborate with the Carver WMO to implement methods to control carp populations and improve water quality in the East Creek Chain of Lakes as identified in the Drawdown Feasibility Study. This phase would focus on Big Woods, McKnight, Jonathan and Grace Lakes.	<u>City of Chaska, CCWMO</u>	<u>\$225,000</u>	<u>2027</u>

225

2018 - 2027

<u>REVISED JULY 15, 2022</u>

226 4.5 FUNDING MECHANISMS

Laws regarding project funding are different between metropolitan WDs and WMOs, and outstate watershed districts. M.S. Chapter 103D applies to all watershed districts, while Chapter
103B applies only to the Minneapolis/St. Paul metropolitan area watershed districts and WMOs.
Since-Because the District is both a watershed district and in the metropolitan area, both sets of
statutes apply. This section provides a summary of the funding sources available to the District,
followed by a discussion of the District's proposed funding method(s).

233 4.5.1 Funding Statutes Available to Watershed District

234 4.5.1.1 Special Assessments

M.S. 103D.601 allows a project to be instituted by resolution by a majority of the watershed
district managers. The project must be financed by grants totaling at least 50 percent of the
estimated cost, and the engineer's estimate of costs to parties (including assessments against
benefited properties but excluding state, federal, or other grants) <u>mustis</u> not <u>be</u> more than
\$750,000. Initiated projects using this procedure must be paid for by special assessments against
benefitting properties. Benefitted properties are defined in M.S. 103D.725.

- M.S. 103D.701 requires that to initiate projects, watershed districts must first have a BWSRapproved watershed management plan. Projects that are to be paid for by assessment of
 benefited property must be initiated by a petition, by unanimous resolution of the managers, or
 by some other method prescribed in statute.
- M.S. 103D.705 provides for cities or residents to petition a watershed district for a project that
 generally conforms to the watershed management plan. The petitioners must guarantee the
 funds used to pay for the project's preliminary feasibility studies.
- 248 4.5.1.2 Ad Valorem Taxes
- 249 M.S. 103D.905 allows watershed district managers to use a portion of their administrative fund
- 250 for project construction and maintenance beneficial to the watershed district. The upper limit of
- this fund is \$250,000 per year for the District. This also authorizes watershed district managers
- to levy a tax over the entire watershed district (an ad_-valorem tax) to pay the cost attributable to
- the basic water management features of projects initiated by petition of a municipality or
- 254 \neq political subdivision, or at least 50 resident owners whose property <u>lies</u> within the watershed.
- The levy may not exceed 0.00798 percent of the taxable market value for a period not to exceed
- **256** 15 consecutive years.
- 257 Procedure for Projects to be Funded Using M.S. 103D.905, Subd. 3
- **258** (Basic Water Management Features Projects)
- 259 Formal minor plan amendments are not required for projects funded using the additional levy
- allowed under M.S. 103D.905, Subd. 3. Therefore, the District will follow an informal proposed

261 project information process to inform the LGUs about these proposed projects. The District

- will distribute the proposed project information to the affected LGUs for review and comment,
- but not to the state review agencies or the Metropolitan Council. <u>The BWSR will not take formal</u>
 action, since because it is not a formal amendment.

M.S. 103B.231 requires watershed districts within the Twin Cities metropolitan area to prepare a
 water management plan. The statute requires that a capital improvement project be part of the

- **267** Plan. For those improvements included in the plan M.S. 103B.231, Subd.10 and M.S. 103D.605,
- allow watershed districts to implement projects without a petition. According to these statutes,
- watershed districts may levy ad valorem taxes to pay for capital improvements (including
- 270 maintenance of improvements) either over the entire watershed district (M.S. 103B.241), or over
- all property within a portion or subwatershed of the watershed district (M.S. 103B.251). M.S.
- 272 103B.241, like M.S. 103D.729, also allows watershed districts to accumulate funds to finance
- 273 improvements as an alternative to issuing bonds. For the District to use either funding
- 274 mechanism, the District must adequately describe the projects, studies, and project maintenance
- in the Plan. The Plan must also specify that the source of funding will be in accordance with
- these statutes. Currently there is no levy limit.
- 277 The advantage of using M.S. 103B.231 (Subd. 10) and 103B.241 is that a hearing is not required
- for each project. If the capital improvement project is specified in the Plan, the watershed
- 279 district need only conduct an annual hearing on the entire capital improvement program, in
- accordance with M.S. 103B.241. Under M.S. 103B.241, projects are paid for by <u>an</u> ad valorem
 tax over the entire watershed district.
- M.S. 103B.251, on the other hand, allows the watershed district to set up a special taxing district
 or subwatershed over which funds are raised by an ad valorem tax. M.S. 103B.251 requires that
 (a) a copy of the Plan be filed with the county, (b) a special improvement hearing be held for the
 capital improvement projects, and (c) the county raises the funds by selling bonds paid for by an
 ad valorem tax over the subwatershed/special tax district.
- **287** 4.5.1.2.1 Procedure for Projects to be Funded Using M.S. 103B.241 or M.S. 103B.251
- Formal minor plan amendments will be required for projects funded under M.S. 103B.241 or 288 289 M.S. 103B.251 that are not described in sufficient detail in the Plan. The District will follow the 290 formal minor plan amendment process of MN Rules 8410.0140 for these types of projects. The 291 formal process requires that the District distribute the plan amendment to the affected local 292 units of government, the Metropolitan Council, and the state review agencies (including BWSR) 293 for review and comment. The counties will have 90 days from receipt of the minor plan 294 amendment to either approve or disapprove the amendment, and to hold any public hearings 295 regarding the amendment. Unless the District agrees to an extension, if a county fails to
- complete its review within the prescribed period, the amendment will be deemed approved by
- that county. The proposed amendment will be deemed as a minor amendment if either BWSR

- agrees that the amendment is a minor amendment, or BWSR fails to act within 45 days ofreceipt of the minor plan amendment.
- 300 4.5.1.2.2 Procedure Following Approval of Proposed Project Information or Minor Amendment

Following approval of the proposed project information or minor amendment, and prior toadvertising for project bids, the District will hold at least one additional public hearing to review

303 the final design of the proposed project. At this point, the District shall have completed the final

304 design plans and specifications necessary for the contract bidding process and construction.

- Although this last stage of public hearings is not required by statute, the public and other
- interested parties will have an additional opportunity to review and comment on the details ofthe proposed project.

308 4.5.1.3 Utilit<u>iesy and</u>≁ Fees

Like stormwater utilities for cities, M.S. 103D.729 allows watershed districts to establish a water management district, or a subwatershed within the District, for collecting revenues and paying project costs initiated under M.S. 103B.231, M.S. 103D.601, 605, 611, or 730. For the District to use this funding mechanism, it must be included in its Plan, or the Plan must be amended to include this funding mechanism in accordance with 103D.411 or 103D.231 and in compliance with subdivisions 3 and 4.

315 4.5.2 Emergency Projects

M.S. 103D.615 allows watershed district managers to declare an emergency and order work to
be done without a contract. The cost of work can be paid for either by special assessment
against benefitted properties or an ad valorem tax levy, if the cost is not more than 25 percent of
the most recent administrative ad valorem levy.

M.S. 103B.252 allows watershed districts to declare an emergency and order work to be done
without a contract. M.S. 103B.252 is like M.S. 103D.615, except it does not contain levy limits.
In addition to the abovementioned funding sources, the District could receive funding from
various state, federal, and private sources, such as grant and loan programs. This affords the

324 District the opportunity to use grants and loans for projects instead of county-issued bonds.

325 4.5.3 Proposed Funding Mechanisms

326 The District has financed its past administrative, program, and project costs through its annual327 administrative fund ad valorem tax levies under the authority of the Watershed Act (M.S.

328 103D.905). The District's administrative fund levy limit is \$250,000. The District's administrative

- fund is used only for initiatives that benefit the water resources of the District; it is not used for
- 330 projects that benefit commercial navigation. Many of the District's efforts and funding have
- been put toward activities that address water quality, runoff management, or flood control
- problems and issues. In the past, the District has maintained a capital reserve fund consisting of
- any unused portions of previous administrative levies.

- Both the Watershed Act, referenced above, and the Metropolitan Surface Water Management
- Act (M.S. 103B.201 et seq.) provide additional revenue generating authority to the District. For
- **336** projects creating a unique benefit to individual properties, the District may adopt and levy
- **337** benefits assessments against project-benefitted properties. For projects and programs of
- 338 District-wide benefit, that are included in the District's CIP, the District may impose an
- additional ad valorem tax levy to generate the revenue necessary to implement programs and
- 340 projects on its CIP. For special water or resource management projects, the District may
- 341 establish a <u>w</u> water <u>m</u> an agement <u>d</u> \rightarrow is trict within which it may impose a water management
- 342 charge to pay for basic water management activities made necessary by land uses with in the
- 343 Water Management District.
- Other than the administrative fund, all revenue generating authorities of the District require
 strict compliance with administrative proceeding requirements found in the Watershed Act and
 Metropolitan Surface Water Management Act.

347 4.5.4 Petitioned Projects

The District will place a priority on petitioned projects that are identified as implementation
projects in future resource plans. The advantages of a petition process are: 1) the statute sets
forth a definite process for the petition and subsequent actions; 2) the <u>m</u>Managers are required

- to decide whether to order the project-<u>or not</u>; and 3) if additional funding is needed, the statute
- allows for ad valorem funding of these petitioned projects. The disadvantage of the petition
- 353 process is that it may require more lead time to approve a project than the current District
- process. M.S.103D.905, subd.3 allows the District to levy an additional ad valorem tax over the
- entire District to pay for the basic water management features of projects that, which have been
- initiated by a petition of a municipality within the watershed. The \underline{Mm} anagers anticipate funding
- 357 projects using this authority, except projects that benefit navigation. If no city petitions the
- **358** District for a project which the District believes is a priority, the District may consider initiating
- the project under the provisions of Chapter 103.