

Table 5-3 BCWMC 2015-2027 CIP (Amended August 2020) (Proposed additions and deletions in yellow)

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BCWMC ID	Capital Project Description	Estimated Capital Cost <sup>1</sup>	Year													
			2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	
Watershed-wide																
WS-1	Remove sediment deltas in lakes downstream of intercommunity watersheds to reduce phosphorus and sediment loading, following evaluation of sediment sources and upstream source control (Policy 56)									TBD	TBD	TBD	TBD	TBD		
	Implementation of water quality improvement projects resutling from Metro Chloride TMDL (pending) to address chloride loading (Policy 18)									TBD	TBD	TBD	TBD	TBD		
	Implementation of water quality improvement projects resutling from the Upper Mississippi River Bacteria TMDL (Policy 7, generally)									TBD	TBD	TBD	TBD	TBD		
	Implementation of water quality improvement projects resulting from future TMDLs (Policy 7, generally)									TBD	TBD	TBD	TBD	TBD		
Medicine Lake																
ML-12 <sup>17</sup>	Projects address phosphorus load reduction requirements in Medicine Lake TMDL	Medley Park Stormwater Treatment Facility, Golden Valley	\$ 2,000,000								\$900,000	\$300,000	\$ 800,000			
ML-14 <sup>3</sup>		Medicine Lake shoreland restoration	\$ 100,000							After 2023						
ML-15		Wet pond (0.5 acre) at downstream end of each major subwatershed	\$ 2,000,000							After 2023						
ML-16		Water quality retrofits to existing ponds upstream of Medicine Lake	\$ 11,000,000							After 2023						
ML-17		In-lake alum treatment (Option 18 in Medicine Lake Plan)	\$ 1,400,000							After 2023						
ML-19 <sup>4</sup>		Chemical treatment of inflow to Medicine Lake from watershed	\$ 1,000,000							After 2023						
ML-20		Mt. Olivet Stream Restoration Project	\$ 178,100							\$178,100						
ML-21		Jevne Park Stormwater Pond, City of Medicine Lake to alleviate flooding/improve	\$ 500,000						\$ 500,000							
ML-22		Ponderosa Woods Stream Restoration	\$ 475,000										\$475,000			
ML-23		Cost Sharing Purchase of High Efficiency Street Sweeper for city of Plymouth	\$ 75,000							\$75,000						
ML-24	Beacon Heights 2 <sup>nd</sup> Addition Stormwater Improvement Project	\$ 150,000									\$90,000	\$ 60,000				
Plymouth Creek																
2017CR-P <sup>5</sup>	Plymouth Creek Restoration, from Annapolis Lane to 2,500 feet upstream (east) of Annapolis Lane to reduce phosphorus and sediment loading, and improve habitat	\$ 863,573			\$ 580,930	\$ 282,643										
2026CR-P	Plymouth Creek Restoration Project, Old Rockford Road to Vicksburg Lane	\$ 500,000												\$500,000		
2027CR-P	Plymouth Creek Restoration Project, Dunkirk Ln to Yuma Ln & Vicksburg Ln to Cty Rd 9	\$ 600,000													\$600,000	
Sweeney Lake																
SL-3 <sup>6</sup>	Load reduction requirements TMDL	Schaper Pond Diversion Project	\$ 612,000													
SL-4		Sweeney Lake shoreland restoration	\$ 300,000							After 2023						
SL-5		Water quality retrofits to existing ponds upstream of Sweeney Lake	\$ 800,000							After 2023						
SL-6		Dredging of Spring Pond and diversion of Sweeney Lake branch into Spring Pond.	\$ 1,000,000							After 2023						
SL-7		Projects to reduce loading from untreated Hennepin County and MnDOT right-of-way	\$ 400,000							After 2023						

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				2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025			
SL-8	Projects to address phosphorus loading in Sweeney Lake	Sweeney Lake Water Quality Improvement Project (alum + carp management) <sup>15</sup>	\$ 568,080						\$568,080								
SL-9 <sup>4</sup>		Chemical treatment of inflow to Sweeney Lake from Sweeney Lake Branch of Bassett Creek	\$ 1,000,000							After 2023							
SL-10		Impervious area runoff retention and retrofits, including bioretention, rainwater gardens, and soil restoration (various locations)	\$ 500,000							After 2023							
SL-11		Stormwater treatment system for dissolved phosphorus removal in Golden Valley	\$ 400,000							After 2023							
Twin Lake																	
TW-2 <sup>6</sup>	In-lake alum treatment of Twin Lake to reduce internal phosphorus loading		\$ 160,000														
Bassett Creek Park Pond																	
BCP-2	Dredging of Bassett Creek Park Pond and upstream channel improvements for water quality treatment to reduce phosphorus loading		\$1,000,000				\$1,000,000										
Northwood Lake																	
NL-1 <sup>7</sup>	Northwood Lake Water Quality Project to reduce phosphorus loading		\$ 1,769,070		\$ 676,000	\$ 1,093,070											
NL-2 <sup>8</sup>	Four Seasons Mall Area Water Quality Improvements to reduce phosphorus loading		\$ 990,000														
	Implementation of water quality improvement projects recommended in future Northwood Lake TMDL study									TBD	TBD	TBD	TBD	TBD			
Bassett Creek Main Stem																	
2015CR-M <sup>9</sup>	Restore Main Stem channel, 10th Avenue to Duluth Street, Golden Valley to reduce phosphorus and sediment loading		\$ 1,503,000	\$ 1,503,000													
2017CR-M <sup>10</sup>	Main Stem Channel Restoration, Cedar Lake Road to Irving Ave to reduce phosphorus and sediment loading		\$ 1,064,472			\$ 400,000	\$ 664,472										
2024CR-M	Main Stem Channel Restoration, Regent Ave. to Golden Valley Road (in Golden Valley) to reduce phosphorus and sediment loading		\$ 700,000										\$ 100,000	\$ 600,000			
BC2,3,8, 10	Medicine Lake Road and Winnetka Avenue Long Term Flood Mitigation Plan Implementation		\$ 4,200,000					\$ 1,100,000	\$ 500,000		\$ 300,000	\$ 1,000,000		\$600,000	\$700,000		
BC-4 <sup>12</sup>	Honeywell Pond Expansion, Main Stem Watershed (Golden Valley) to reduce phosphorus loading and provide water quantity benefits		\$ 1,202,000		\$1,202,000												
BC-5 <sup>13</sup>	Water Quality Improvements (phosphorus reduction) in Bryn Mawr Meadows, Main Stem Watershed (Minneapolis) <sup>16</sup>		\$ 912,000						\$ 100,000	\$ 812,000							
BC-7 <sup>18</sup>	Dredging of accumulated sediment in Main Stem of Bassett Creek just north of Highway 55, Theodore Wirth Regional Park, to reduce phosphorus loading and improve habitat		\$ 2,759,000							\$ 600,000	\$1,100,000	\$859,000	\$200,000				
BC-9	Restoration and stabilization of historic Bassett Creek channel, Main Stem Watershed (Minneapolis) to reduce phosphorus and sediment loading																
BC-11	Bassett Creek Park Water Quality Improvement Project		\$ 500,000										\$ 200,000	\$300,000			

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BC-12	Cost share purchase of high efficiency street sweeper	\$ 150,000											\$150,000		
BC-13	Toledo Ave/Minnaqua Pond Stormwater Improvements & Flood Reduction	\$ 700,000													\$700,000
<b>Westwood Lake</b>															
WST-2	Westwood Lake Water Quality Improvement Project in Westwood Hills Nature Center	\$300,000					\$ 300,000								
<b>Parkers Lake</b>															
PL-7	Parkers Lake Drainage Improvement Project to reduce erosion, suspended solids, and total phosphorus to Pakers Lake	\$485,000							\$ 485,000						
<b>Crane Lake</b>															
CL-3 <sup>14</sup>	Retention of impervious area drainage at Ridgedale area (e.g., bioswales, tree trenches, rain gardens) to reduce phosphorus loading	\$300,000						\$ 300,000							
CL-4	Crane Lake Chloride Reduction Demonstration Project at Ridgedale Mall	\$300,000												\$ 300,000	
<b>Flood Control Project</b>															
FCP-1	Flood Control Project Double Box Culvert Repairs	\$1,200,000													\$1,200,000
<b>Total Annual Estimated Project Cost<sup>2</sup></b>		<b>\$46,831,295</b>	<b>\$1,503,000</b>	<b>\$1,878,000</b>	<b>\$2,074,000</b>	<b>\$1,947,115</b>	<b>\$1,400,000</b>	<b>\$1,968,080</b>	<b>\$2,150,100</b>	<b>\$2,390,000</b>	<b>\$2,219,000</b>	<b>\$1,775,000</b>	<b>\$1,650,000</b>	<b>\$1,500,000</b>	<b>\$2,500,000</b>

**Notes:**

TBD = To be determined, usually at the time the project is listed in the working (5-year) CIP.

1. Project costs presented in 2015 - 2020 dollars, depending on when project was added to CIP.

2. Includes estimated costs for projects not yet assigned an implementation year. Annual Estimated Costs do not necessarily reflect actual Hennepin County levy amount due to grants, financial contributions from cities, and use of CIP fund

3. ML-14: Project may include lakeshore restoration projects administered by the BCWMC. The City of Plymouth has already performed lakeshore restoration on some properties adjacent to Medicine Lake.

4. Estimated cost of projects ML-19 and SL-9 do not include the annual cost of chemical precipitant and operation/maintenance of treatment facility.

5. 2017CR-P: Project is based on recommendations in the 2009 Plymouth Creek Restoration feasibility study.

6. SL-3 and TW-2: Projects already levied, to be constructed in 2015.

7. NL-1: Project based on Option 4 of the 1996 Northwood Lake Watershed and Lake Management Plan. Project includes construction of a pond upstream of Northwood Lake and installation of underground stormwater treatment and reuse system, and bioinfiltration cells.

8. NL-2: The Four Seasons Mall Area Water Quality Project could include construction of stormwater treatment ponds, -restoration of an eroding stream channel, alum treatment of stormwater, or other projects to address phosphorus loading. The projects stem from recommendations from the 1996 *Northwood Lake Watershed and Lake Management Plan*. The BCWMC levied for the project defined as option 1 in the 2012 feasibility study. Now project planned to coincide with redevelopment of the Four Seasons Mall area.

9. 2015CR-M: Project is based on recommendations in the Feasibility Study for 2015 Bassett Creek Main Stem Restoration Project (2014). Project already levied: the BCWMC certified a levy to the county for 2015 (\$1,000,000); remaining

10. 2017CR-M: Project is based on recommendations in the Feasibility Study for 2012 Bassett Creek Main Stem Restoration Project (2011).

12. BC-4: Project diverts currently untreated stormwater runoff to the pond.

13. BC-5: Project based on Option 7 in the Bassett Creek Main Stem Watershed Management Plan to treat currently untreated stormwater runoff to reduce phosphorus loading.

14. CL-3: Project is based on recommendations in the Crane Lake Watershed and Lake Management Plan (1995).

15. Project now involves carp management and includes federal grant funding through MPCA.

16. Estimated cost increased from original estimate of \$500,000; State grant funds awarded

17. City of Golden Valley to provide \$500,000

18. Grant funds of \$325,000 secured from state and county