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Table 6-1 VBWD 2015-2025 Implementation Program (Amended November 2020)

Item Number	Item Description	Plan Reference	VBWD and other Government Involvement	Estimated Cost	Potential Funding Sources/Authority	Proposed Implementation Year
Engineering Administration Activities (EA)						
EA-1	Maintain VBWD advisory committees and seek opportunities to engage them	Section 4.3.7	VBWD performs	\$2,000 per year	VBWD Ad Valorem	Annually
EA-2	Investigate option of hiring a district administrator	Section 4.9.7	VBWD performs	\$2,000	VBWD Ad Valorem	2016
EA-3	Review and comment on MPCA's draft impaired waters (303(d)) list	Section 4.1.7	VBWD performs	\$2,000 every other year	VBWD Ad Valorem	Every other year
EA-4	Cooperate with other units of government to address groundwater quality issues	Section 4.2.7	VBWD performs, with other units of government (e.g., MDH, Washington County)	\$2,000 per year	VBWD Ad Valorem	Annually
EA-5	Seek input from Technical Advisory Committee	Section 4.3.7	VBWD performs	\$1,000 per meeting (\$2,000 per year)	VBWD Ad Valorem	Annually
EA-6	Revise individual water body classifications	Section 4.1.7	VBWD performs	Variable, less than \$5,000	VBWD Ad Valorem	2020 (or as needed)
EA-7	Cooperate with the MDNR and other groups on fisheries issues	Section 4.2.7	MDNR and other groups perform, VBWD assists	\$2,500 every 3 years	VBWD Ad Valorem	As requested (assumed every 3 years)
Public Education Activities (ED)						
ED-1	Contract with a watershed educator to assist in VBWD education efforts	Section 4.3.7	VBWD performs	\$25,000 per year	VBWD Ad Valorem	Annually
ED-2	Respond to information requests/provide information	Section 4.3.7	VBWD performs	\$21,000 per year	VBWD Ad Valorem	Annually
ED-3	Regularly update VBWD website	Section 4.3.7	VBWD performs	\$5,000 per year	VBWD Ad Valorem	Annually

Table 6-1 VBWD 2015-2025 Implementation Program (Amended November 2020)

Item Number	Item Description	Plan Reference	VBWD and other Government Involvement	Estimated Cost	Potential Funding Sources/Authority	Proposed Implementation Year
ED-4	Hold tours, events, and/or orientation meetings for interested citizens	Section 4.3.7	VBWD performs	\$2,500 per year (\$1,000-\$5,000 per event)	VBWD Ad Valorem	Annually
ED-5	General education activities: <ul style="list-style-type: none"> · Increase awareness and support of VBWD through VBWD actions and coordinated education efforts with other entities (e.g., signage, watershed tours) · Promote positive behaviors through education and other public information efforts 	Section 4.3.7	VBWD performs and will coordinate with potential partners where appropriate (e.g., EMWREP)	\$6,000 per year	VBWD Ad Valorem	Annually
ED-6	Implement VBWD volunteer recognition program	Section 4.3.7	VBWD performs	\$1,000 every other year	VBWD Ad Valorem	As needed (assumed every other year)
ED-7	Publish and distribute VBWD annual report	Section 4.3.7	VBWD performs	\$8,000 per year	VBWD Ad Valorem	Annually
ED-8	Continue to update and implement an invasive vegetation education program	Section 4.6.7	VBWD performs in collaboration with MDNR, cities and townships	\$3,000 per year	VBWD Ad Valorem	Annually
ED-9	Promote Washington County financial assistance program for non-compliant SSTS	Section 4.2.7	VBWD performs in collaboration with Washington County	\$1,000 per year	VBWD Ad Valorem	Annually
ED-10	Cooperate with cities and other public water suppliers in education efforts regarding preventing contamination of groundwater supplies	Section 4.7.7	VBWD performs, with cities and others	\$1,000 per year	VBWD Ad Valorem	As needed (assumed annually)

Table 6-1 VBWD 2015-2025 Implementation Program (Amended November 2020)

Item Number	Item Description	Plan Reference	VBWD and other Government Involvement	Estimated Cost	Potential Funding Sources/Authority	Proposed Implementation Year
ED-11	Cooperate with the MDA and other agencies to encourage agricultural best management practices, including participation in MDA programs	Section 4.8.7	VBWD performs	\$500 per year	VBWD Ad Valorem	As needed (assumed annually)
ED-12	Install information signs at current and future VBWD projects	Section 4.3.7	VBWD performs	\$5,000 per sign	VBWD Ad Valorem	As needed (assumed every five years)
ED-13	Host stormwater management trainings for city and township staff and assist cities with MS4 compliance	Section 4.3.7	VBWD performs with assistance through EMWREP	\$1,000 per year	VBWD Ad Valorem	As needed (assumed every other year)
ED-14	Partner with others to promote educational, financial, and technical assistance for pasture management	Section 4.3.7 and Section 5.37	VBWD in collaboration with University of Minnesota, Washington County, and Washington Conservation District	\$1,000 per year	VBWD Ad Valorem	As needed (assumed every year)
Maintenance and Management Activities (MM)						
MM-1	Conform to NPDES MS4 requirements, implement VBWD's Stormwater Pollution Prevention Program (SWPPP); update MS4 permit as required	Section 4.5.7	VBWD performs	\$3,000 per year, \$10,000 in 2018 and 2023 to update MS4	VBWD Ad Valorem	Annually (update in 2018, 2023)

Table 6-1 VBWD 2015-2025 Implementation Program (Amended November 2020)

Item Number	Item Description	Plan Reference	VBWD and other Government Involvement	Estimated Cost	Potential Funding Sources/Authority	Proposed Implementation Year
MM-2	Administer VBWD permit program	Section 4.5.7	VBWD performs	\$25,000 per year	VBWD permit fees, or VBWD Ad Valorem (for non-escrow projects or projects with waived fee)	Annually
MM-3	Review and comment on all MDNR public waters work permit applications	Section 4.7.7	VBWD performs	\$1,000 per year (\$500 per permit)	VBWD Ad Valorem	Annually
MM-4	Administer Wetland Conservation Act (VBWD is Local Government Unit)	Section 4.6.7	VBWD performs	\$21,500 per year	VBWD permit fees or VBWD Ad Valorem (for non-escrow projects or projects with waived fee)	Annually
MM-5	Inspect VBWD-permitted projects & enforcement (or defer to cities & townships)	Section 4.8.7	VBWD performs or cities and townships perform at request of VBWD	Varies (estimated \$5,000 per year)	VBWD permit fees or by cities and townships	Annually (as needed)
MM-6	Operate, inspect, maintain, modify, and repair all existing and future VBWD water quality improvement systems	Section 4.1.7	VBWD performs or contracts with others to perform	Inspection: \$1,000 per year Minor repairs: \$5,500 per year	VBWD Ad Valorem	Annually

Table 6-1 VBWD 2015-2025 Implementation Program (Amended November 2020)

Item Number	Item Description	Plan Reference	VBWD and other Government Involvement	Estimated Cost	Potential Funding Sources/Authority	Proposed Implementation Year
MM-7	Operate, inspect, maintain, modify, and repair all existing and future VBWD flood control systems (e.g. Project 1007, Rest Area Dam, Eagle Point Lake Dam, Olson Lake Estates Outlet, Echo Lake Outlet, Downs Lake Outlet, Weber Pond Outlet)	Section 4.7.7	VBWD performs; for Rest Area Dam, VBWD performs with MnDOT; for Echo Lake and Weber Pond Outlet, VBWD works with the City of Mahtomedi and/or adjacent landowners to make repairs or VBWD will contract for repairs	Annual inspection: \$4,000 per year Operation, maintenance, and minor repairs: \$20,000 per year	VBWD Ad Valorem; for Rest Area Dam, VBWD responsible for 80% of repair, reconstruction and maintenance costs	Inspections: Annually Operation and maintenance: Annually Minor repair: as needed (assumed annually)
MM-8	Detailed inspection of Project 1007, Olson Lake, and Downs Lake systems, (televising and NASSCO rating of pipes and structures)	Section 4.7.7	VBWD performs	\$110,000 per inspection	VBWD Ad Valorem	Every 3 to 5 years (2018, 2022)
MM-9	Review local water management plans	Section 4.9.7, Section 6.3.3	VBWD performs	\$125,000 (Varies from \$5,000 to \$15,000 per plan)	VBWD Ad Valorem	2017-2019
MM-10	Review community comprehensive land use plans, proposed revisions and zoning changes	Section 4.7.7,	VBWD performs	\$28,000 (\$2,000 per plan)	VBWD Ad Valorem	As needed (estimated 2018)
MM-11	Review environmental assessments (e.g., EAW, EIS, AUAR)	Section 4.7.7	VBWD performs	\$2,000 per assessment	VBWD Ad Valorem	As needed (estimated one assessment every other year)
MM-12	Review community floodplain and shoreland management ordinances	Section 4.7.7	VBWD performs	\$7,000 (\$500 per ordinance)	VBWD Ad Valorem	As needed (estimated 2018)

Table 6-1 VBWD 2015-2025 Implementation Program (Amended November 2020)

Item Number	Item Description	Plan Reference	VBWD and other Government Involvement	Estimated Cost	Potential Funding Sources/Authority	Proposed Implementation Year
MM-13	Review revisions to community wellhead protection plans	Section 4.2.7	VBWD performs	\$1,000 per plan	VBWD Ad Valorem	As needed (estimated one plan every 3 years)
MM-14	Update VBWD legal boundary	Section 4.9.7	VBWD performs in cooperation with adjacent water management organizations	Varies, estimated \$5,000 - \$10,000	VBWD Ad Valorem	2025
MM-15	Begin updating VBWD Watershed Management Plan	Section 6.5	VBWD performs	\$300,000	VBWD Ad Valorem	2023 - 2025
MM-16	Perform VBWD Plan amendment to update implementation program in response to WRAPS five year assessment (see WQL-26)	Section 6.5	VBWD performs	\$10,000	VBWD Ad Valorem	2021
MM-17	Long Lake Outlet operation– Communication with property owners	Section 5.5	VBWD performs	\$500 every other year	VBWD Ad Valorem	As needed, estimated every other year
MM-18	Revise VBWD Rules and Requirements (last updated 2013)	Section 4.5.7	VBWD performs	\$20,000	VBWD Ad Valorem	As needed (estimated 2022-2023)
MM-19	Work with local government units to adopt/revise land use ordinances to allow for runoff prevention methods (narrower streets smaller parking lots, etc.)	Section 4.5.7	VBWD performs	\$5,000 per year	VBWD Ad Valorem	2016-2017
MM-20	Eagle Point Lake watershed – Work with Washington County Parks to protect oak forest areas and upland buffers	Section 5.12	Washington County Parks performs with help from VBWD	\$1,000 per year	VBWD Ad Valorem	2016-2020

Table 6-1 VBWD 2015-2025 Implementation Program (Amended November 2020)

Item Number	Item Description	Plan Reference	VBWD and other Government Involvement	Estimated Cost	Potential Funding Sources/Authority	Proposed Implementation Year
MM-21	Identify, inventory, prioritize, and monitor erosion and sedimentation problems that arise outside of VBWD permit program	Section 4.8.7	VBWD performs	\$15,000 per year	VBWD Ad Valorem	As identified (assumed annually)
MM-22	Sunnybrook Lake – Work with Grant on raising low roads	Section 5.21	City of Grant performs with VBWD assistance	\$10,000	VBWD Ad Valorem	Estimated 2021-2025
Lake, Stream, Wetland and Groundwater Monitoring (MON)						
MON-1	Recruit and train volunteers for monitoring and other programs/projects	Section 4.3.7	VBWD performs with assistance from Metropolitan Council	\$2,000 per year	VBWD Ad Valorem	Annually
MON-2	Water quality monitoring of major VBWD lakes and ponds	Section 4.1.7, Subwatershed management plans (Section 5) and Table 4.1.3	VBWD performs Intensive and Supplemental water quality monitoring, if triggered Volunteers perform Survey Level Monitoring through the Metropolitan Council’s CAMP (paid by VBWD); if no volunteers found, VBWD performs	Varies by year, likely range \$40,000-\$85,000 per year (excluding Intensive Monitoring)	VBWD Ad Valorem	Annually
MON-3	Analyze and report lake and pond water quality monitoring results, including trend analysis and assessment relative to triggers	Section 4.1.7	VBWD performs	\$12,000 per year	VBWD Ad Valorem	Annually

Table 6-1 VBWD 2015-2025 Implementation Program (Amended November 2020)

Item Number	Item Description	Plan Reference	VBWD and other Government Involvement	Estimated Cost	Potential Funding Sources/Authority	Proposed Implementation Year
MON-4	Stream water quality and streamflow monitoring of perennial streams (Valley Creek and Kelle’s Creek) and Rest Area Pond Outlet, and associated annual reporting	Sections 4.1.7, 5.20, 5.37	VBWD performs or contracts for performance, with involvement of Metropolitan Council (WOMP), and volunteers perform	WOMP: \$26,000 per year; \$7,000 per year; \$8,000 per year (VBWD portion of cost for Valley Creek, Kelle’s Creek, and Rest Area Pond outlet, respectively)	VBWD Ad Valorem or grant funds	Annually
MON-5	Biological monitoring of perennial streams (Valley Creek and Kelle’s Creek) and associated annual reporting	Sections 4.4.7, 5.20, and 5.37	VBWD performs	\$8,000 per year	VBWD Ad Valorem	Annually
MON-6	Continue volunteer stream monitoring program at Valley Creek	Section 5.20	VBWD funds	\$6,000 per year	VBWD Ad Valorem	Annually
MON-7	Assess feasibility of volunteer stream monitoring program for Kelle’s Creek	Section 5.37	VBWD funds	\$1,500	VBWD Ad Valorem	2016
MON-8	Physically monitor MDNR public waters watercourses and report results· Valley Creek· Raleigh Creek· Kelle’s Creek	Sections 4.4.7, 5.11, 5.20, and 5.37	VBWD performs	\$12,000 every 3 years	VBWD Ad Valorem	As needed (assume every 3 years)

Table 6-1 VBWD 2015-2025 Implementation Program (Amended November 2020)

Item Number	Item Description	Plan Reference	VBWD and other Government Involvement	Estimated Cost	Potential Funding Sources/Authority	Proposed Implementation Year
MON-9	Monthly lake and pond water level monitoring and reporting (waterbodies listed in Section 4.7.7).	Sections 4.7.7, and various subwatershed management plans (Section 5)	VBWD performs, through volunteers	\$2,000 per year	VBWD Ad Valorem	Annually
MON-10	Daily precipitation monitoring and monthly reporting	Section 4.7.7	VBWD performs through volunteer(s)	\$100 per year	VBWD Ad Valorem	Annually
MON-11	Snowpack monitoring	Section 4.7.7	VBWD performs	\$3,000 every 3 years	VBWD Ad Valorem	As needed (estimated every 3 years)
MON-12	Groundwater level monitoring & reporting (up to 15 monitoring wells)	Section 4.2.7 and 4.7.7	VBWD performs	\$2,000 per year	VBWD Ad Valorem	At least semi-annual monitoring, annual reporting
MON-13	Fish survey of Silver Lake	Section 5.1	VBWD coordinates with MDNR to perform	\$5,000	VBWD Ad Valorem	2017
MON-14	Fish survey of Horseshoe Lake	Section 5.15	VBWD coordinates with MDNR to perform	\$5,000	VBWD Ad Valorem	2018
MON-15	Point intercept macrophyte surveys of high priority waterbodies	Section 4.1.7	VBWD performs or contracts with others to perform	\$20,000 per year	VBWD Ad Valorem	Annually
MON-16	Monitor fisheries of Valley Creek in cooperation with the MDNR or other entities.	Section 5.20	VBWD collaborates with the MDNR to perform	\$10,000 every 3 years	VBWD Ad Valorem	Three year intervals (planned 2016, 2019, 2022, 2025)

Table 6-1 VBWD 2015-2025 Implementation Program (Amended November 2020)

Item Number	Item Description	Plan Reference	VBWD and other Government Involvement	Estimated Cost	Potential Funding Sources/Authority	Proposed Implementation Year
MON-17	Monitor water quality of Raleigh Creek and other VBWD intermittent streams	Sections 4.4.7 and 5.11.2	VBWD performs	Varies up (estimated \$5,000 every 5 years)	VBWD Ad Valorem	As needed, in response to identified or suspected problem (estimated every 5 years)
MON-18	Monitor physical condition of non-priority VBWD streams	Section 4.4.7	VBWD performs	Varies up (estimated \$5,000 every 5 years)	VBWD Ad Valorem	As needed, in response to identified or suspected problem (estimated every 5 years)
MON-19*	Collect sediment core samples from Downs Lake, Echo Lake, and Goose Lake to evaluate phosphorus availability (see WRAPS study)	Section 4.1.7	VBWD performs in cooperation with MPCA	\$100,000	VBWD Ad Valorem	2021-2025
Water Quality Programs, Studies and Projects (WQL)						
WQL-1	Implement various cost share programs encouraging implementation of best management practices in the watershed; the programs target residents, businesses, developers, and others.	Section 4.3.7	VBWD performs, possible cooperation with other units of government	\$105,000 per year for awards; \$48,000 for program administration (\$45,000 for WCD, \$3,000 for RCD)	VBWD Ad Valorem	Annually
WQL-2	Spring and erosion inventory - locate springs in areas of karst geology and identify erosion problems in Kelle's Creek and Swede Hill subwatersheds	Sections 4.8.7, 5.37, and 5.38	VBWD performs	\$10,000	VBWD Ad Valorem	2017

Table 6-1 VBWD 2015-2025 Implementation Program (Amended November 2020)

Item Number	Item Description	Plan Reference	VBWD and other Government Involvement	Estimated Cost	Potential Funding Sources/Authority	Proposed Implementation Year
WQL-3	Kelle’s Creek streambank stabilization	Section 5.37	VBWD performs	\$20,000	VBWD Ad Valorem	2018-2019
WQL-4	Evaluate opportunities for enhanced treatment of wetland discharge in subwatershed SLV-10	Section 5.1	VBWD performs	\$25,000	VBWD Ad Valorem or grant funds	2017
WQL-5	Complete inventory of erosion sites along the ravine to Sunfish Lake	Section 5.25	VBWD performs	\$40,000	VBWD Ad Valorem or grant funds	2016
WQL-6	Assist cities, townships, and other entities to implement projects to address aquatic invasive species (e.g., surveys, treatment design, and other technical support). Waterbodies may include: Long Lake, Silver Lake, Lake DeMontreville	Section 4.1.7	VBWD performs in collaboration with cities, townships, and others	\$20,000 per year	VBWD Ad Valorem	As needed (assume annually)\
WQL-7	Long Lake – Assess sedimentation at Highway 36 crossing following 2011 work performed by MnDOT	Section 5.5	VBWD performs in collaboration with MnDOT	\$5,000	VBWD Ad Valorem	2016-2017
WQL-8	Provide technical assistance to Washington County Parks in their efforts to eradicate reed canary grass from Eagle Point Lake wetlands –	Section 4.1.7 and 5.12	VBWD partners with Washington County Parks	\$10,000	VBWD Ad Valorem	2016
WQL-9	Perform feasibility study to evaluate enhanced stormwater treatment or infiltration in EPL-9 subwatershed	Section 5.12	VBWD in collaboration with Washington County Parks	\$50,000	VBWD (see Table 4.9-2) and grant funds	2017-2018
WQL-10	Install enhanced stormwater treatment or infiltration in EPL-9 subwatershed	Section 5.12	VBWD in collaboration with Washington County Parks	To be determined	VBWD (see Table 4.9-2) and grant funds	2021-2025

Table 6-1 VBWD 2015-2025 Implementation Program (Amended November 2020)

Item Number	Item Description	Plan Reference	VBWD and other Government Involvement	Estimated Cost	Potential Funding Sources/Authority	Proposed Implementation Year
WQL-11	Evaluate opportunities for enhanced treatment in Raleigh Creek subwatersheds (RLE-1, RLE-2, RLE-3)	Section 5.11	VBWD in collaboration with 3M, Lake Elmo, and/or Washington County Parks	\$50,000	VBWD Ad Valorem or grant funds	2016 – 2017
WQL-12	Install enhanced treatment in select Raleigh Creek subwatersheds (RLE-1, RLE-2, RLE-3), see item S-7	Section 5.11	VBWD in collaboration with 3M, Lake Elmo, and/or Washington County Parks	\$500,000	VBWD (see Table 4.9-2) and grant funds	2019-2021
WQL-13	Inspect and replace (or fund through cost-share) non-functioning or non-compliant SSTS systems in the Kelle’s Creek watershed	Section 5.37	VBWD in collaboration with Washington County	\$50,000	VBWD (see Table 4.9-2) and Clean Water Fund grant funds	2016-2017
WQL-14	Assess progress towards meeting outcomes of WRAPS and TMDL studies in cooperation with cities, townships, and counties	Section 4.1.7	VBWD in collaboration with WRAPS/TMDL partners	\$20,000	VBWD Ad Valorem	2020
WQL-15	Assist Washington County Parks in implementing a project to redesign and reconstruct the Farney Creek Berm	Section 4.3.7 and Section 5.12	VBWD in collaboration with Washington County Parks	\$100,000	VBWD Ad Valorem	2017-2018
WQL-16	Swede Hill Creek – Slope/bluff stabilization feasibility study	Section 5.38	VBWD performs	\$15,000	VBWD Ad Valorem	2016
WQL-17	Implement one to two stream management and stream restoration projects to address identified stream degradation problems in Valley Creek	Section 4.3.7, Section 5.20	VBWD performs, possibly partnering with other organizations	\$500,000 for 1 to 2 Valley Creek projects between 2016-2020)	VBWD Ad Valorem (see funding breakdown in Table 4.9-3 and Table 4.9-4)	2016-2020

Table 6-1 VBWD 2015-2025 Implementation Program (Amended November 2020)

Item Number	Item Description	Plan Reference	VBWD and other Government Involvement	Estimated Cost	Potential Funding Sources/Authority	Proposed Implementation Year
WQL-18	Perform aquatic invasive species (AIS) management projects where diagnostic studies have indicated negative water quality impacts from AIS	Section 4.1.7	VBWD performs	Varies (\$15,000 to \$300,000; estimated \$50,000 every 3 years)	VBWD Ad Valorem, Utility, and grant funds (see Table 4.9-5)	As needed, pending study results
WQL-19	Eagle Point Lake – Curlyleaf pondweed management	Section 5.12	VBWD performs in collaboration with Washington County Parks	\$300,000	VBWD Ad Valorem	2021-2025
WQL-20	In-lake alum treatment of Sunfish Lake	Section 5.25	VBWD or Lake Elmo performs	\$250,000	Varies, see Table 4.9-2	2016-2018
WQL-21	Projects to control nutrient release from sediment in Eagle Point Lake (dredging, alum)	Section 5.12	VBWD in collaboration with Washington County Parks	To be determined	VBWD (see Table 4.9-2) and grant funds	2021-2025
WQL-22	Cooperate with MPCA to develop future TMDLs or WRAPS studies (e.g., Echo Lake, Downs Lake, Goose Lake); actively participate in TMDL or WRAPS process	Section 4.2.7	MPCA performs in collaboration with the VBWD	\$100,000	VBWD Ad Valorem	2021-2025
WQL-23	Evaluate potential to expand water reuse in Tartan Park	Section 5.15	VBWD in collaboration with 3M or future landowner	To be determined	VBWD Ad Valorem or grant funds	2021-2025
WQL-24*	Complete diagnostic-feasibility studies, when recommended, to determine needed water quality improvement projects	Section 4.1.7	VBWD performs	\$200,000 per study	VBWD Ad Valorem	As recommended based on water quality data (estimated every 5 years)

Table 6-1 VBWD 2015-2025 Implementation Program (Amended November 2020)

Item Number	Item Description	Plan Reference	VBWD and other Government Involvement	Estimated Cost	Potential Funding Sources/Authority	Proposed Implementation Year
WQL-25*	Develop a work plan to improve native plant communities in cooperation with the MDNR and other groups	Section 5.1	VBWD assists the MDNR and other groups	\$10,000	VBWD Ad Valorem	2017-2018
WQL-26*	Implement measures to correct future identified erosion and sedimentation problems	Section 4.8.7	VBWD performs or requires other units of government to perform	Varies (up to \$200,000 depending on waterbody)	VBWD Ad Valorem (See Table 4.9-2 for projects more than \$500,000)	As needed (estimated 2021-2025)
WQL-27*	Water quality improvement projects recommended in future water quality diagnostic feasibility studies, WRAPS, or TMDL studies	Section 4.1.7	VBWD performs with other agencies/groups likely involved	Varies (\$500,000 to \$1,000,000 per project)	VBWD Ad Valorem (See Table 4.9-2 for projects more than \$500,000)	As needed (estimated 2021-2025)
WQL-28*	In-lake alum treatment of Silver Lake (if water quality does not improve; see WRAPS study)	Section 5.1	VBWD performs	\$40,000	VBWD Ad Valorem	As needed (estimated 2021-2025)
WQL-29*	In-lake alum treatment of Lake Edith (if quality continues to decline; see WRAPS study)	Section 5.19	VBWD performs	\$250,000	VBWD Ad Valorem (See Table 4.9-2 for projects more than \$500,000)	As needed (estimated 2021-2025)
WQL-30*	Perform carp inventory of Lake Edith (if quality continues to decline, see WRAPS study)	Section 5.20	VBWD performs	\$50,000	VBWD Ad Valorem	As needed (estimated 2021-2025)
WQL-31*	Implement stream restoration and stabilization projects in Raleigh Creek	Section 5.11	VBWD performs	\$60,000	VBWD Ad Valorem	2021-2025

Table 6-1 VBWD 2015-2025 Implementation Program (Amended November 2020)

Item Number	Item Description	Plan Reference	VBWD and other Government Involvement	Estimated Cost	Potential Funding Sources/Authority	Proposed Implementation Year
WQL-32*	Implement stream bluff and slope stabilization projects in the Swede Hill Creek watershed (see item WQL-6)	Section 5.38	VBWD performs	\$25,000	VBWD Ad Valorem	2021-2025
Water Quantity Programs, Studies and Projects (WQT)						
WQT-1	Assist property owners in FEMA unnumbered A zones in obtaining Letters of Map Amendment or Letters of Map Revision	Section 4.7.7	VBWD performs	\$5,000 per instance	VBWD Ad Valorem	As needed (assumed every other year)
WQT-2	Rest Area Pond – Investigate feasibility and benefits of restricting outlet	Section 5.17.3	VBWD performs study in cooperation with MnDOT	\$10,000	VBWD Ad Valorem	2017
WQT-3	Perform hydrologic modeling of target watersheds and update 100-year VBWD water levels per current precipitation data.	Section 4.7.7.2 and Section 5	VBWD performs	\$300,000 over 5 years	VBWD Ad Valorem	2016-2020
WQT-4	Assist the City of Afton in implementing flood control and other improvements in areas draining to Kelle's Creek and the St. Croix River	Section 5.37	VBWD collaborates with the City of Afton to perform	\$50,000 per year	VBWD Ad Valorem	2016-2025
WQT-5	Rest Area Pond – implement, if approved, restricting outlet (see item WQT03)	Section 5.17.3	VBWD performs	\$30,000	VBWD Ad Valorem	2018
WQT-6	Sunnybrook Lake – Implement flood-proofing of affected homes	Section 5.21	VBWD performs	\$1,700,000	Special Assessments (about 5%), Subwatershed (about 20%), and Ad Valorem (about 70%)	2016-2018

Table 6-1 VBWD 2015-2025 Implementation Program (Amended November 2020)

Item Number	Item Description	Plan Reference	VBWD and other Government Involvement	Estimated Cost	Potential Funding Sources/Authority	Proposed Implementation Year
WQT-7	Acquisition and removal of habitable primary structures below the 100-year flood levels of landlocked basins, including approximately 15 flood-prone homes on Friedrich’s Pond, Sunnybrook Lake, and Klawitter Pond	Section 4.7.7.2	VBWD performs	\$7,538,000 (see breakout costs below)	Ad Valorem and MDNR Hazard Mitigation Grants	2019 - 2022
<p>Friedrich’s Pond: 9350 31st St. N. \$350,000</p> <p>Sunnybrook Lake Area: 7150 Jocelyn Rd. N. \$506,000 6890 Jocelyn Rd. N. \$330,000 6921 Jocelyn Rd. N. \$457,000 6908 Jocelyn Rd. N. \$515,000 6738 Jocelyn Rd. N. \$412,000 9653 68th Ct. N. \$501,000 6922 Keats Ave. N. \$429,000 6920 Jocelyn Rd. N. \$560,000 7081 Jocelyn Lane N. \$564,000 6782 Jocelyn Rd. N. \$511,000 6969 Jocelyn Rd. N. \$707,000 7020 Jocelyn Rd. N. \$561,000 7080 Jocelyn Rd. N. \$579,000</p> <p>Klawitter Pond: 9940 59th St. Ct. N. \$556,000</p>						

* - denotes potential future projects not yet planned, but that may result from future monitoring and/or targeted studies

Table 6-2 VBWD Implementation Plan (summarized by year) (Amended November 2020)

	Item Number	Year											
		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025		
Engineering Administration	EA-1	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
	EA-2												
	EA-3		\$2,000		\$2,000		\$2,000		\$2,000		\$2,000		\$2,000
	EA-4	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
	EA-5	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
	EA-6					\$5,000							
	EA-7		\$2,500			\$2,500				\$2,500			
	TOTAL EA (Scheduled)	\$4,000	\$6,000	\$4,000	\$6,000	\$4,000	\$6,000	\$6,000	\$4,000	\$6,000	\$4,000	\$6,000	\$6,000
	TOTAL EA (As needed)	\$2,000	\$4,500	\$2,000	\$2,000	\$9,500	\$2,000	\$2,000	\$4,500	\$2,000	\$2,000	\$2,000	\$2,000
	TOTAL EA	\$6,000	\$10,500	\$6,000	\$8,000	\$13,500	\$8,000	\$6,000	\$10,500	\$6,000	\$8,000	\$8,000	\$8,000
Public Education	ED-1	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
	ED-2	\$21,000	\$21,000	\$21,000	\$21,000	\$21,000	\$21,000	\$21,000	\$21,000	\$21,000	\$21,000	\$21,000	\$21,000
	ED-3	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
	ED-4	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500
	ED-5	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000
	ED-6		\$1,000		\$1,000		\$1,000		\$1,000		\$1,000		\$1,000
	ED-7	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000
	ED-8	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000
	ED-9	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
	ED-10	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
	ED-11	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500
	ED-12					\$5,000							\$5,000
	ED-13	\$1,000		\$1,000		\$1,000		\$1,000		\$1,000		\$1,000	
	ED-14		\$1,000		\$1,000		\$1,000		\$1,000		\$1,000		\$1,000
	TOTAL ED (Scheduled)	\$69,000	\$69,000	\$69,000	\$69,000	\$69,000	\$69,000	\$69,000	\$69,000	\$69,000	\$69,000	\$69,000	\$69,000
TOTAL ED (As Needed)	\$5,000	\$6,000	\$5,000	\$6,000	\$10,000	\$6,000	\$5,000	\$6,000	\$5,000	\$6,000	\$5,000	\$11,000	
TOTAL ED	\$74,000	\$75,000	\$74,000	\$75,000	\$79,000	\$75,000	\$74,000	\$75,000	\$75,000	\$74,000	\$75,000	\$80,000	
Monitoring	MM-1	\$3,000	\$3,000	\$10,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$10,000	\$3,000	\$3,000	\$3,000
	MM-2	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
	MM-3	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
	MM-4	\$21,500	\$21,500	\$21,500	\$21,500	\$21,500	\$21,500	\$21,500	\$21,500	\$21,500	\$21,500	\$21,500	\$21,500
	MM-5	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
	MM-6	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500
	MM-7	\$4,000	\$4,000	\$4,000	\$20,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$20,000	\$4,000
	MM-8			\$110,000						\$110,000			
	MM-9		\$42,000	\$42,000	\$42,000								
	MM-10			\$28,000									
	MM-11	\$2,000		\$2,000		\$2,000		\$2,000		\$2,000		\$2,000	
	MM-12			\$7,000									
	MM-13		\$1,000					\$1,000					\$1,000
	MM-14												\$10,000
	MM-15									\$100,000	\$100,000	\$100,000	\$100,000
	MM-16							\$10,000					
	MM-17	\$500		\$500		\$500		\$500		\$500		\$500	
	MM-18								\$10,000	\$10,000			
	MM-19	\$5,000	\$5,000										
	MM-20	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
	MM-21	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
	MM-22					\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
TOTAL MM (Scheduled)	\$63,000	\$105,000	\$135,000	\$100,000	\$58,000	\$67,000	\$57,000	\$164,000	\$157,000	\$167,000	\$167,000	\$167,000	
TOTAL MM (As Needed)	\$26,500	\$25,000	\$143,500	\$40,000	\$26,500	\$27,000	\$148,500	\$36,000	\$44,500	\$44,500	\$27,000	\$27,000	
TOTAL MM	\$89,500	\$130,000	\$278,500	\$140,000	\$84,500	\$94,000	\$205,500	\$200,000	\$201,500	\$201,500	\$194,000	\$194,000	
Monitoring	MON-1	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
	MON-2	\$65,000	\$65,000	\$65,000	\$65,000	\$65,000	\$65,000	\$65,000	\$65,000	\$65,000	\$65,000	\$65,000	\$65,000
	MON-3	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000
	MON-4	\$41,000	\$41,000	\$41,000	\$41,000	\$41,000	\$41,000	\$41,000	\$41,000	\$41,000	\$41,000	\$41,000	\$41,000
	MON-5	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000
	MON-6	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000
	MON-7	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500
	MON-8		\$12,000			\$12,000				\$12,000			
	MON-9	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
	MON-10	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100
	MON-11	\$3,000		\$3,000		\$3,000		\$3,000		\$3,000		\$3,000	
	MON-12	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000

Note: Items in red are performed on an as needed basis; year of implementation is an estimate of future need.

Table 6-2 VBWD Implementation Plan (summarized by year) (Amended November 2020)

	Item Number	Year										
		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
Monitoring (cont'd)	MON-13		\$5,000									
	MON-14			\$5,000								
	MON-15	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	
	MON-16	\$10,000			\$10,000			\$10,000				
	MON-17			\$5,000					\$5,000			
	MON-18					\$5,000					\$5,000	
	MON-19						\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	
	TOTAL MON (Scheduled)	\$169,600	\$164,600	\$164,600	\$169,600	\$159,600	\$179,600	\$189,600	\$179,600	\$179,600	\$179,600	
	TOTAL MON (As Needed)	\$3,000	\$12,000	\$5,000	\$3,000	\$17,000	\$0	\$3,000	\$17,000	\$0	\$8,000	
	TOTAL MON	\$172,600	\$176,600	\$169,600	\$172,600	\$176,600	\$179,600	\$192,600	\$196,600	\$179,600	\$187,600	
Water Quality Programs, Studies, or Projects	WQL-1	\$105,000	\$105,000	\$105,000	\$105,000	\$105,000	\$105,000	\$105,000	\$105,000	\$105,000	\$105,000	
	WQL-2		\$10,000									
	WQL-3			\$10,000	\$10,000							
	WQL-4		\$25,000									
	WQL-5	\$40,000										
	WQL-6	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	
	WQL-7	\$2,500	\$2,500									
	WQL-8	\$10,000										
	WQL-9		\$25,000	\$25,000								
	WQL-10									TBD		
	WQL-11	\$25,000	\$25,000									
	WQL-12				\$166,000	\$166,000	\$166,000					
	WQL-13	\$25,000	\$25,000									
	WQL-14					\$20,000						
	WQL-15		\$50,000	\$50,000								
	WQL-16	\$15,000										
	WQL-17	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000						
	WQL-18			\$50,000			\$50,000			\$50,000		
	WQL-19						\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	
	WQL-20	\$83,000	\$83,000	\$83,000								
	WQL-21									TBD		
	WQL-22						\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	
	WQL-23									TBD		
	WQL-24					\$100,000					\$100,000	
	WQL-25		\$5,000	\$5,000								
	WQL-26									TBD		
	WQL-27									TBD		
	WQL-28						\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	
	WQL-29						\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	
	WQL-30						\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	
	WQL-31						\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	
	WQL-32						\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	
TOTAL WQL (Scheduled)	\$425,500	\$470,500	\$393,000	\$401,000	\$411,000	\$446,000	\$280,000	\$280,000	\$280,000	\$280,000		
TOTAL WQL (As Needed)	\$0	\$5,000	\$55,000	\$0	\$100,000	\$60,000	\$10,000	\$10,000	\$60,000	\$110,000		
TOTAL WQL	\$425,500	\$475,500	\$448,000	\$401,000	\$511,000	\$506,000	\$290,000	\$290,000	\$340,000	\$390,000		
Water Quantity Programs, Studies, or Projects	WQT-1	\$5,000		\$5,000		\$5,000		\$5,000		\$5,000		
	WQT-2	\$10,000										
	WQT-3	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000						
	WQT-4	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000		
	WQT-5			\$30,000								
	WQT-6	\$575,000	\$575,000	\$575,000								
	TOTAL WQL (Scheduled)	\$695,000	\$685,000	\$715,000	\$110,000	\$110,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	
	TOTAL WQL (As Needed)	\$5,000	\$0	\$5,000	\$0	\$5,000	\$0	\$5,000	\$0	\$5,000	\$0	
TOTAL WQT	\$1,400,000	\$1,370,000	\$1,440,000	\$220,000	\$230,000	\$100,000	\$110,000	\$100,000	\$110,000	\$100,000		
YEARLY TOTAL (Scheduled)	\$1,426,100	\$1,500,100	\$1,480,600	\$855,600	\$811,600	\$817,600	\$649,600	\$748,600	\$739,600	\$751,600		
YEARLY TOTAL (As Needed)	\$41,500	\$52,500	\$215,500	\$51,000	\$168,000	\$95,000	\$173,500	\$73,500	\$116,500	\$158,000		
YEARLY TOTAL	\$1,467,600	\$1,552,600	\$1,696,100	\$906,600	\$979,600	\$912,600	\$823,100	\$822,100	\$856,100	\$909,600		

Note: Items in red are performed on an as needed basis; year of implementation is an estimate of future need.

Table 6-3 Permit Authority of Agencies with Jurisdiction within the VBWD (Amended November 2020)

Agency	Type of Approval	Description
Federal		
U.S. Army Corps of Engineers (USACE) Note: Section 401 Certification is implemented in coordination with the MPCA.	Section 10 of the Rivers and Harbors Act	Applies to placement of structures and/or work in, or affecting, navigable waters of the United States.
	Section 404 Permit	Applies to the discharge of dredged or fill material into waters of the United States. There are two types of Section 404 permits: regional and nationwide general permits, and individual permits.
	Section 401 of the Clean Water Act Water Quality Certification	Applies to activities that require a Corps of Engineers Section 10, Corps of Engineers Section 404, or Federal Energy Regulatory Commission permit. These activities must first obtain Section 401 water quality certification.
State		
Minnesota Department of Natural Resources (MDNR)	Public Waters Work Permit	Applies to any work that will alter the course, current or cross-section of any MDNR public water lake, wetland or watercourse; also applies to any work below the ordinary high water mark of MDNR public waters.
	Groundwater or Surface Water Appropriation Permit	Applies to suppliers of domestic water to more than 25 people or for any use of groundwater or surface water that exceeds 10,000 gallons/day or 1,000,000 gallons/year.
	Dam Safety Permit	Applies to impoundments that pose a potential threat to public safety or property. Dams 6 feet high or less and dams that impound 15 acre-feet of water or less are exempt from the rules. Dams less than 25 feet high that impound less than 50 acre-feet of water are also exempt unless there is a potential for loss of life.
	Riprap Shore Protection Permit	Applies to the placement of riprap shore protection or placement of fill to recover shoreland lost to erosion.
	Aquatic Plant Management Permit	Applies to chemical or mechanical removal of aquatic plants, including submerged, emergent, and floating vegetation.
	Fisheries Permit	Applies to transport and stocking of fish and the removal of rough fish.
Minnesota Environmental Quality Board (EQB)	Environmental Assessment Worksheet	Broad environmental assessment required for certain proposed developments and activities.
Minnesota Department of Health (MDH)	Well Management Program	Applies to drilling of new water wells and sealing of abandoned water wells. Includes Wellhead Protection Program.
	Safe Drinking Water Act	Applies to construction of new water wells and other public water supply systems

Table 6-3 Permit Authority of Agencies with Jurisdiction within the VBWD (Amended November 2020)

Agency	Type of Approval	Description
Minnesota Pollution Control Agency (MPCA)	State Discharge System (SDS)/ National Pollutant Discharge Elimination System (NPDES) Permit	Applies to all discrete sources of wastewater discharge to surface waters, including sanitary wastewater, process wastewater, etc.
	NPDES/SDS Construction Stormwater Permit	Applies to construction activities that disturb 1 or more acres of land.
	NPDES General Industrial Stormwater Permit	Applies to certain industrial/ commercial activities that come into contact with stormwater. Requires preparation of stormwater pollution prevention plan.
	NPDES General Storm Water Permit for Municipal Separate Storm Sewer Systems (MS4s)	Applies to municipal storm sewer systems serving populations under 100,000 located in urbanized areas, MnDOT, counties, and other public systems (e.g., universities). Requires permittees to implement public education programs, detect and eliminate illicit discharges, control construction and post-construction stormwater runoff on sites that disturb 1 or more acres of land, and address pollution prevention at municipal operations.
	NPDES Phase 1 MS4 Storm Water Permit	Applies to municipal storm sewer systems serving populations over 100,000 (in Minnesota, only Minneapolis and St. Paul). Requires practices similar to permit for small MS4s, plus additional requirements.
	Permit for disposal of dredged material (permit not required for stormwater ponds)	Applies to material excavated at or below the ordinary high water level of water basins, watercourses, public waters, or public waters wetlands (note: specific guidance provide for material removed from stormwater ponds).
Note: Section 401 Certification is implemented in coordination with the USACE.	Section 401 of the Clean Water Act Water Quality Certification	Applies to activities that require either a Corps of Engineers Section 10, Corps of Engineers Section 404 or Federal Energy Regulatory Commission permit. These activities must first obtain Section 401 water quality certification.