

**Table IV-2
Valley Branch Watershed District 2009 Annual Report
Assessing Progress Toward Plan Objectives**

VBWD Mission	VBWD Policy	Item Number from Table 7-1 of Plan	Item Description	Plan Reference Section	Proposed Implementation Year in Plan	Status/Accomplishments
A, F	PI-A, PI-B, PI-C	AA-1	General education activities: <ul style="list-style-type: none"> • Increase awareness of VBWD • Coordinate and cooperate with other entities to educate the public on general watershed issues • Promote positive behaviors through education and other public information efforts 	4.1.7	Annually	Continuing. This is accomplished through a variety of methods, including but not limited to newspaper articles and notices, the VBWD website, the VBWD BMP cost-share program, meetings with neighborhood groups, and attending community meetings.
A, F	PI-A	AA-2	Update VBWD website	4.1.7	Annually	Meeting information updates are done twice a month. Larger updates are done when necessary. A strategic plan for the website is planned for 2010.
A, F	PI-A	AA-3	Respond to information requests/provide information	4.1.7	Annually	Continuing. Each year, the VBWD receives hundreds of information requests, ranging from water levels and aquatic plants to 30-year old development plans and possible PFC contaminant routes.
A, F	PI-B	AA-4	Recruit and train volunteers for monitoring and other programs/ projects	4.1.7	Annually	Volunteers continue to monitor the quality of lakes, pond, and wetlands through CAMP. VBWD recruited 13 CAMP volunteers in 2005, 20 in 2006, 16 in 2007, 15 in 2008, and 11 in 2009. Volunteers also monitor water levels. One volunteer monitors water levels of 8-13 water bodies monthly and six other volunteers monitor one water body each during the ice-free months.
A, F	PI-B	AA-5	Develop and implement VBWD volunteer recognition program	4.1.7	Annually	Planning was done in 2008 and 2009. The event might take place in 2010.
A, F	PI-B	AA-6	Maintain VBWD Citizen Advisory Committee and seek to develop meaningful responsibilities for committee	4.1.7	Annually	Planning was done in 2008. Recruitment occurred and the committee was appointed in 2009.

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A, F	PL-C	AA-7	Develop plan for an incentive program encouraging implementation of best management practices in the watershed. This incentive program will focus on residents, but can also apply to businesses, developers, and others.	4.1.7	2006 – Develop program 2007 – Begin implementing annually thereafter	Developed cost-share program in 2007 and implemented in 2008. Thirty-six BMP cost share proposals were reviewed in 2008 and 31 proposals were approved for funding by the VBWD Managers. In 2009, 39 proposals were reviewed and 38 were approved for funding by the Managers. Hired in 2006.
A, F	PL-C	AA-8	Hire watershed educator and ongoing watershed educator fees	4.1.7	2006 – Hire	Hired in 2006.
B	WQ-C	AA-9	Review and comment on MPCA's draft impaired waters (303(d)) list	4.2.7	Every other year	Continues. The VBWD reviews the draft list when it comes out in odd numbered years and provides comments, if applicable, to the MPCA.
B	WQ-G	AA-10	Buffers: require 16.5-foot wide buffers and encourage/ support wider buffers for new VBWD-permitted projects; encourage/support buffers at existing homes/ businesses and park areas	4.2.7	Annually	Wider buffer rules were adopted January 25, 2007. VBWD continues to encourage/support wider buffers at existing homes/businesses.
B, C	SW-B	AA-11	Develop and implement incentive program to encourage developers to try new and innovative stormwater management techniques. Incentive program could include VBWD funding of additional cost for implementing innovative measures, VBWD construction of demonstration project (see Capital Projects section of Table 7-1), and VBWD grant program.	4.4.7	2005 – Develop program 2006 – Begin implementing Annually thereafter	VBWD's cost-share BMP program (Item AA-7), developed in 2007 and implemented in 2008, partially addressed this item. VBWD developed a separate incentive program to target non-homeowners in 2009. One project at Century College in White Bear Lake has already been approved for funding by the VBWD Managers and was constructed in the summer of 2009.
A, B	SW-D	AA-12	Conform to NPDES Phase II MS4 requirements, implement VBWD's Stormwater Pollution Prevention Plan (SWPPP)	4.4.7	Annually	Continues. VBWD holds an annual public hearing to discuss the SWPPP and annual report and submits the annual report to the MPCA before the deadline.

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B, C	SW-E	AA-13	Administer VBWD permit program	4.4.7	Annually	Continues. VBWD issued 28 permits in 2005, 33 in 2006, 26 in 2007, 27 in 2008, and 27 in 2009.
B, C, D	WL&FM-E	AA-14	Review and comment on all DNR public waters work permit applications	4.5.7	Annually	Continues. The VBWD reviews and comments on approximately half a dozen DNR permit applications per year.
D	GM-C	AA-15	Cooperate with other units of government to address groundwater quality issues	4.6.7	Annually	Continues. Two examples of this work include working with Washington County, the MN Department of Health, the Minnesota Pollution Control Agency (MPCA), and the University of Minnesota in 2006-2008 to study issues related to PFC groundwater contamination and working with the MPCA, City of Lake Elmo, and Baytown Township in 2007 to develop an acceptable groundwater capture, treatment, and disposal system for the Baytown Groundwater Contamination Site.
E	WL-C	AA-16	Administer Wetland Conservation Act (VBWD is Local Government Unit)	4.7.7	Annually	Continues. Since 2005, VBWD has provided wetland-related technical assistance to approximately 75 landowners; reviewed and approved 8 Wetland Replacement Plans, 3 No Loss Applications, 5 Wetland Exemption Applications, 23 Wetland Delineation Reports, and 1 Wetland Bank Plan Addendum; worked with 5 landowners to resolve unauthorized wetland activities; conducted 40 wetland replacement site inspections to 13 separate wetland replacement areas; and participated in 12 pre-application meetings for 9 separate projects.

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B, C, E	EP&SC-B	AA-17	Inspect VBWD-permitted projects & enforcement	4.8.7	Annually	Continues. See Item AA-13. The VBWD's erosion control inspector routinely inspects VBWD-permitted projects. The VBWD permits about 30 projects annually. Of these, nearly all require erosion and sediment control inspection. The frequency of inspection depends upon the project size, the risk of failure, and the amount of activity.
B		AA-18	Valley Creek – facilitate meeting regarding 2000 Subwatershed Plan implementation	5.20.2.1 Item 7	Annually	VBWD continues to work with stakeholders, and staff has met with various stakeholders. No longer planned to be an annual event, but rather as needed.
B	WQ-H	AOM-1	Operate, inspect, maintain, modify, and repair all existing and future VBWD water quality improvement systems	Section 4.2.7	Annually	Continues. Currently, no systems other than those in AOM-2 have been installed that need inspections.
B, C	WL&FM-D	AOM-2	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 4.5.7	Inspections: Annually Operation, maintenance and repair: as needed	Continues. Because operations are only needed and allowed when the water content of the snow is high in the spring, the system has needed no operations since 2005. Each fall the VBWD inspects the system. Some repairs (vegetation removal, sealing leaks, etc.) have been made since 2005, based on the inspections. No modifications to the systems have been made since 2005.
B, C		AOM-3	Valley Creek – inspect dam	Section 5.20.3	Annually	Done in 2007. VBWD does not anticipate conducting future inspections on this private dam.
A, F	PI-A	ADC-1	Publish and distribute VBWD annual report	Section 4.1.7	Annually	Continues. Paper copies of the annual report are sent to a few agencies before May 1 of each year and the report is posted to the VBWD's website.

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A, B, F	WQ-C	ADC-2	Basin water quality monitoring	Section 4.2.7 and individual subsections of Section 5 and Table 4.2.3	Annually	Continues. 15 basins were monitored in 2005, 22 basins were monitored in 2006, 21 basins in 2007, 32 basins in 2008, and 37 basins will be monitored in 2009.
B	WQ-E, WQ-F	ADC-3	Analyze and report basin water quality monitoring, including calculating trends and action triggers and comparing results to triggers	Section 4.2.7	Annually	Continues. This is done each year in one report. It is also summarized in each year's annual report.
A, B, C, D, F	SM&R-A	ADC-4	Stream water quality and streamflow monitoring of perennial streams (Valley Creek), and annual reporting	Sections 4.3.7, 5.10, and 5.20.2.1, Item 1	Annually	Continues, includes the WOMP station on the main stem of Valley Creek, WOMP-like stations on the south fork and north fork of Valley Creek, Item ADC-5, and invertebrate sampling, analyzing, and reporting at two stations on Valley Creek. See annual reports.
A, B, F		ADC-5	Valley Creek – continue volunteer stream monitoring program	Section 5.20.2.1, Item 2	Annually	Continues. VBWD has funded a program with the Stillwater Area High School since 2002.
A, B, F	SM&R-A	ADC-6	Physical monitoring of DNR-protected streams (i.e. Valley Creek and Raleigh Creek) and report results	Sections 4.3.7 and 5.11.2	Annually	Physical monitoring of portions of Raleigh Creek began prior to 2005. As projects (see P-32) are implemented at Valley Creek, the VBWD will physically monitor the projects' performance.
A, B, F		ADC-7	Raleigh Creek – Fund volunteer stream monitoring program	Section 5.11.2	Annually	Volunteers for the VBWD attempted to monitor Raleigh Creek in 2007, but it was too dry. This is no longer an annually planned activity.

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A, C, F	WL&FM-A, WL&FM-B	ADC-8	Monthly basin water level monitoring and reporting. Possibly expand to include: Echo Lake, Weber Pond, Capaul's Pond, Legion Pond, Bay Lake, Goose Lake, Clear Lake, Mergens Pond, Rose Lake and Kramer Pond	Sections 4.5.7, 5.3.3, 5.4.3, 5.6.3, 5.27.3, 5.28.3, 5.29.3, 5.30.3, 5.32.3, 5.33.3, and 5.34.3	Annually	Continues. As suggested in the Plan and summarized in the item description, the VBWD expanded the water level monitoring program in 2008. VBWD will determine whether or not to continue to monitor the water levels of each basin on a case-by-case basis.
A, B, C, F	WL&FM-A, WL&FM-B	ADC-9	Daily precipitation monitoring and monthly reporting	Section 4.5.7	Annually	Continues. A volunteer for the VBWD records daily precipitation at the station north of Lake Jane and reports the monthly amounts to the VBWD.
C	WL&FM-A, WL&FM-B	ADC-10	Snowpack monitoring	Section 4.5.7	When needed	As needed. Since 2005, the VBWD has not needed to conduct snowpack monitoring. Snowpack monitoring is done when the water content of the snow is suspected to be high enough to trigger operations on the VBWD's flood control system. See Item AOM-2.
A, C, D, F	WL&FM-A, WL&FM-B, GM-A, GM-B	ADC-11	Groundwater level monitoring & reporting	Section 4.5.7 and 4.6.7	At least quarterly monitoring, annual reporting	Continues. See annual reports.
A, F	PI-A	A-1	Hold tours, events, and/or orientation meetings for interested citizens	Section 4.1.7	As needed or in response to requests	As needed. For example, the VBWD held a tour of Valley Creek stabilization projects with MPCA and EPA officials in 2008. In 2009, the Managers and CAC members toured several sites within the VBWD. See Item AA-4, too.
A, B, C, D, E, F	PI-B	A-2	Seek input from Technical Advisory Committee	Section 4.1.7	As needed	As needed. For example, the VBWD requested input from the TAC when it developed its 2007 rules.
B	WQ-A	A-3	Revise individual water body classifications	Section 4.2.7	As warranted	No revisions have been made yet.

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B	WQ-G	A-4 (See also P-4 in this table)	Implement recommended actions resulting from habitat monitoring program	Section 4.2.7	As recommended	The VBWD is working with its educator to implement many of the recommendations. The VBWD is currently revegetating the Eagle Point Lake dam.
B	WQ-G	A-5	Cooperate with the DNR and other groups on fisheries issues	Section 4.2.7	As requested	Not requested yet.
A, B, C, D, E, F	SW-B, WL&FM-E, EP&SC-A	A-6	Review local watershed management plans	Section 4.4.7, Section 4.5.7, Section 4.8.7, Section 8.3	2005, 2007, 2009	See Section 1, Part IB of this annual report for details.
A, B, C, D, E, F	SW-B	A-7	Work with local government units to adopt/revise land use ordinances to allow for runoff prevention methods (narrower streets smaller parking lots, etc.)	Section 4.4.7	2006-2008	VBWD's educator has organized training workshop for local officials to incorporate policies for allowing these practices in local comprehensive plans. VBWD expects to continue to work with LGUs through the 2008 comprehensive planning and implementation process.
A, B, C, D, E, F	WL&FM-E	A-8	Review community comprehensive land use plans, proposed revisions and zoning changes	Section 4.5.7, Section 8.1	As needed. Assumed in 2008 for Oakdale, Lake Elmo, Woodbury, Afton, Oak Park Heights, Grant, White Bear Lake, Maplewood, Mahtomedi, North St. Paul	See Section 1, Part IB of this annual report for details.

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A, B, C, D, E, F	WL&FM-E	A-9	Review environmental assessments (e.g. EAW, EIS, AUAR)	Section 4.5.7	As needed	Continues. See Section 1, Part III of this annual report. Since 2005, the VBWD has also submitted comments on environmental assessments (EAWs, EISs, AUARs, etc.) for a proposed fly ash landfill in West Lakeland Township, clean-up plans for the Baytown Groundwater Contamination Site, a sanitary sewer line extension, developments in Afton, Woodbury, and Lake Elmo.
A, B, C, E, F	WL&FM-E	A-10	Review community floodplain and shoreland management ordinances	Section 4.5.7	As needed. Assumed in 2008 for cities listed in A-8.	None has been submitted, yet.
A, D, F	GM-C	A-11	Review community wellhead protection plans	Section 4.6.7	As needed	Continues. VBWD has received and reviewed approximately five wellhead protection plans since 2005.
A, D, F	GM-C	A-12	Cooperate with cities and other public water suppliers in education efforts regarding preventing contamination of groundwater supplies	Section 4.6.7	As needed	Continues, including, but not limited to, VBWD's participation in the East Metro Watershed Education Program and Washington County Water Consortium.
A, B, C, D, F	GM-D, GM-E	A-13	Update VBWD Groundwater Management Rules and Regulations	Section 4.6.7	2005	Complete. Rules adopted January 25, 2007.
A, B, C, D, E, F	WL-A	A-14	Revise VBWD wetland management Rules and Regulations to include wetland management standards and classification system.	Section 4.7.7	2006	Complete. Rules adopted January 25, 2007.

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A, F	EP&SC-C	A-15	Cooperate with other agencies to encourage good agricultural conservation measures in VBWD	Section 4.8.7	As needed	Continues, including, but not limited to, VBWD's participation in the East Metro Water Resources Education Program (EMWREP) and Washington County Water Consortium and VBWD's cooperation with and support of the Washington Conservation District programs.
A	F-A	A-16	Update VBWD legal boundary	Section 4.9.7	As needed	In 2008, the VBWD worked with Washington County to update the entire VBWD boundary.
A, F		A-17	Begin updating VBWD Watershed Management Plan	Section 6.2	2013	Future work.
A, B, F	WQ-G	A-18	Silver Lake – Encourage buffers	Section 5.1.2.1, Item 2d and Section 4.2.7	2006	In 2007, VBWD communicated the benefits of buffers to the North St. Paul City Council and the Silver Lake Association. VBWD will continue to encourage buffers at Silver Lake on its own and through partnerships with EMWREP, Ramsey-Washington Metro Watershed District, and other organizations. VBWD also included comments regarding buffers in reviewing North St. Paul and Maplewood's local plans in 2008. In 2008, the VBWD approved funding to help Maplewood establish vegetative buffers at Joy Park. These buffers are expected to be constructed/installed in 2010. In 2009, the VBWD sent another letter to North St. Paul, encouraging the city to contact the VBWD's BMP cost-share program coordinator and apply for grant to establish buffers.

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A, C		A-19	Acorn Lake – Require Oakdale to install outlet restriction or provide information that shows not needed	Section 5.2.3	2007	The VBWD commented on this in the 2008 draft Oakdale local water management plan. The final plan, anticipated in early 2010, is expected to address this issue.
A		A-20	Long Lake Outlet operation– Communication with property owners	Section 5.5.3.3, Item 3	As needed, assume every other year	Continues. The VBWD communicates frequently with Friends of Long Lake representatives regarding the Long Lake outlet.
A, C		A-21	Eagle Point Lake watershed – Work with WCP to protect oak forest areas and upland buffers	Section 5.12.2.1, Item 3	2007	VBWD communicated with Washington County Parks (WCP) in 2006 regarding this issue. VBWD will continue to work with WCP.
A, B, C, F		A-22	Valley Creek – provide incentives and technical assistance for removing or modifying flood control structures	Section 5.20.2.1, Item 5	2007	Moved to a later date, after 2010. VBWD will re-evaluate the need for this item.
A, B, F		A-23	Valley Creek – work with agencies on reduction of thermal impacts	Section 5.20.2.1, Item 6	2006	VBWD adopted volume control rules on January 25, 2007 which address this item. VBWD has also implemented its BMP cost-share program and incentive program.
A, C, F		A-24	Sunnybrook Lake – Work with Grant on raising low roads	Section 5.21.3.4, Item 4	2005	Potential future work. VBWD attempted in 2005, but will no longer pursue.
B	SM&R-A	DC-1	Monitor water quality of Raleigh Creek and other VBWD intermittent streams	Sections 4.3.7 and 5.11.2	As required/ response to identified or suspected problem	Raleigh Creek was monitored in 2007 and 2008.

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B	SM&R-A	DC-2	Monitor physical condition of streams other than Valley Creek and Raleigh Creek	Section 4.3.7	As needed, in response to problems	Potential future work. The VBWD has investigated erosion problems at Farney Creek.
B	SW-C	DC-3	Stormwater pond inventory – locate ponds and determine if ponds meet criteria	Section 4.4.7	2006-2010	Continuing. In 2005, VBWD indentified, inventoried, and analyzed 67 stormwater ponds 0.25 acres and larger for maintenance needs. 50 ponds were surveyed in 2006, 50 ponds were surveyed in 2007, and 16 ponds were surveyed in 2008.
B	EP&SC-A	DC-4	Identify, inventory, prioritize, and monitor erosion and sedimentation problems that arise outside of VBWD permit program	Section 4.8.7	As identified	Potential future work.
B		DC-5	Silver Lake Intensive Water Quality Monitoring	Section 5.1.2.1, Item 2a	2006	Completed in 2006.
B		DC-6	Silver Lake ditch erosion stabilization evaluation	Section 5.1.2.1, Item 4	2007	Evaluated in 2007. Determined a project is not currently needed. The VBWD will work with Maplewood as it reconstructs Joy Park to address the issue, if needed.
B		DC-7	Long Lake – Evaluate ravine erosion from Weber Pond	Section 5.5.2.1, Item 3a	2006	Evaluated in 2007. Project designs were prepared in 2008, construction began in 2008 and completed in 2009.
B		DC-8	Long Lake – Evaluate sedimentation source from Highway 36	Section 5.5.2.1, Item 3b	2006	VBWD communicated with MnDOT several times since 2006 regarding this issue. A more detailed evaluation, if needed, will be done in the future as MnDOT redesigns interchange.
B		DC-9	Goose Lake – Investigate gully erosion	Section 5.29.2, Item 2	2008	Evaluated in 2007. Project designs were prepared and construction was completed in 2008-2009.

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B		DC-10	Goose Lake – complete aquatic plant surveys to determine if curlyleaf pondweed is kept in check	Section 5.29.2, Item 4	Every 3 years	Continues through the VBWD's habitat monitoring program.
B		DC-11	Goetschel Pond – Investigate gully erosion	Section 5.31.2, Item 3	2005	Evaluated in 2007. Project designs were prepared and construction was completed in 2008-2009.
B		DC-12	Mergens Pond - develop bathymetric map	Section 5.32.2	2005	Completed in 2007.
B, F	WQ-G	S-1	Complete diagnostic-feasibility studies, when recommended, to determine needed water quality improvement projects	Section 4.2.7	As recommended	Continues. VBWD completed a water quality assessment study in 2007 for Acorn, Long, and Sunfish Lakes and began to implement the recommended projects for Long and Sunfish Lakes in 2008. (See P-14 and P-37.) In 2009, water quality assessments were complete for Eagle Point Lake, Horseshoe Lake and Lake DeMontreville.
A, B, F	WQ-G	S-2	TMDL studies: cooperate with MPCA to determine responsible party for developing TMDL study, actively participate in TMDL process	Section 4.2.7	As required	Potential future work. Currently, only Sunfish Lake and Lake St. Croix are listed as nutrient impaired. Lake Jane and Lake Elmo are listed as mercury impaired, and Lake Elmo is listed as PFOS impaired. VBWD completed a water quality assessment studies in 2007 and 2008. The first phase of improvement projects were implemented in 2008. (See P-37 and P-14.)
A, B, F	SW-C	S-3	Develop stormwater pond maintenance/repair/ retrofit plan	Section 4.4.7	2006	Continues with stormwater pond inventory and maintenance. (See DC-3 and P-5).
A, B, C, D, F	SW-A	S-4	Update VBWD Stormwater Management Rules and Regulations, including stormwater volume control requirement	Section 4.4.7, Section 5.20.2.1, Item 2	2005	Completed. New rules adopted in January 2007.

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A, C, F	WL&FM-D	S-5	Assist property owners in FEMA unnumbered A zones in obtaining Letters of Map Amendment or Letters of Map Revision	Section 4.5.7	As needed	Potential future work. No assistance has been requested since 2005.
A, B, F	WL-B	S-6	Complete wetland inventories and functional assessments in targeted areas of the VBWD, and meet with stakeholders to share results, gather feedback, and explore partnerships/projects.	Section 4.7.7	Inventories: 2006-2015 Meetings: 2007-2015	1,230 wetlands were inventoried and assessed in 2007-2009. Planning efforts will continue in 2010.
A, B, F	WL-D	S-7	Develop invasive species education and control program	Section 4.7.7	2008	Discussed in 2008 with VBWD's educator and WCD. This task might be implemented in 2010 with assistance from CAC.
B		S-8	Silver Lake – Study (i.e. literature review) of curlyleaf pondweed and Eurasian water milfoil transport to downstream waters	Section 5.1.2.1, Item 3	2008	VBWD discussed this with the DNR circa 2007 and no longer plans to conduct a study.
A, C, F		S-9	Echo Lake Addition – Flood Relief Study	Section 5.3.3.1	2005	VBWD worked with Mahtomedi to evaluate the problem in 2005. Since Plan adoption, VBWD has assigned the responsibility of further work to Mahtomedi.
B		S-10	Lake DeMontreville – Prepare feasibility study for sedimentation control project	Section 5.7.2.1	2007	Investigated and concept plans developed in 2008. Project implemented in 2009.
B		S-11	Rest Area Pond – Study (i.e. literature review) possible downstream impact of curlyleaf pondweed infestation	Section 5.17.2, Item 2	2008	Completed in 2009.
B, C		S-12	Rest Area Pond – Investigate feasibility of restricting outlet	Section 5.17.3	2008	This task might be implemented in the future.
B		S-13	Valley Creek – Identify critical areas of concern for protection	Section 5.20.2.1, Item 1	2005	Completed in 2005.

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A, B, F		S-14	Valley Creek – Modify buffer rules	Section 5.20.2.1, Item 3	2005	Completed. Rules adopted on January 25, 2007.
F	PI-A	P-1	Install information signs at current and future VBWD projects	Section 4.1.7	As needed.	A sign was installed at the Silver Lake Biorotation Site in 2007. A sign was replaced at the Eagle Point Lake dam in 2006. A sign will be placed at the Century College West Campus Education Island. More signs will be considered with future work.
B	SM&R-C	P-2	Implement stream management and stream restoration projects and actions to address identified stream degradation problems Identified projects: <ul style="list-style-type: none"> • Raleigh Creek – Stream management and stream restoration project implementation • Raleigh Creek – Detention basin(s) flow reduction & water quality treatment project 	Section 4.3.7	To be determined	See below and Item P-32.
				Section 5.11.2	2005	VBWD completed a plan in 2008 and implemented projects in 2009.
				Section 5.11.3	2006	Detention ponds may be added in the future, but are no longer planned in the short-term.
B	WQ-G	P-3	Implement TMDL studies in VBWD	Section 4.2.7	As required	Potential future work.
A, B, F	WQ-G	P-4	Implement recommended projects resulting from habitat monitoring program, i.e. lakescaping demonstration project, sediment excavation, aquatic plant management	Section 4.2.7	As needed	VBWD is working with its educator, WCD, and CAC members to implement recommendations from 2005-2009 monitoring reports.
B	SW-C	P-5	Implement stormwater pond maintenance/repair/retrofit plan	Section 4.4.7	Starting in 2012 and ongoing until plan fully implemented	Implemented in the winter of 2008-2009, when sediment from nine ponds was removed.

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A, B, F	SW-B	P-6	Construct demonstration project for new and innovative stormwater management techniques	Sections 4.4.7 and 5.20.2.1, Item 4	2007 and in future years, when warranted	Long Lake shoreline project done in 2007. Silver Lake bioretention site done in 2005. Other projects funded through BMP cost-share program and incentive program.
A, B, F	WL-D	P-7	Implement invasive species education and control program	Section 4.7.7	2008 and in future years, if needed	VBWD is working with its educator and WCD to implement.
B	EP&SC-A	P-8	Implement measures to correct erosion and sedimentation problems	Section 4.8.7	As needed	Continues. Also see P-16, P-21, P-35, P-32, and P-36.
B		P-9	Silver Lake – In-lake alum treatment	Section 5.1.2.1, Item 2b	2009	The 2000 water quality study of Silver Lake referenced in the 2005 Plan recommended that the VBWD consider in-lake alum treatment. At that time, it was unclear if Silver Lake was meeting its water quality goals, so this activity was included in the Plan. VBWD had decided not to perform this activity because of excellent water quality from 1999 through 2006. However, the lake water quality deteriorated in 2007 and continued in 2008 and 2009 due to whole lake treatments of aquatic plants (performed by the Silver Lake Improvement Association). The VBWD is no longer planning to perform alum treatment, as the treatment would likely result in prolific aquatic plant growth.
B		P-10	Silver Lake – Manage macrophytes	Section 5.1.2.1, Item 2c	2009	VBWD is no longer planning to take the lead in these efforts, but has contributed to efforts led by the Silver Lake Improvement Association.
B		P-11	Silver Lake ditch erosion stabilization project implementation	Section 5.1.2.1, Item 4	2008	Ravine has evaluated in 2007. Stabilization work, if needed, will likely be done in partnership with Maplewood.

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VBWD Mission	VBWD Policy	Item Number from Table 7-1 of Plan	Item Description	Plan Reference Section	Proposed Implementation Year in Plan	Status/Accomplishments
B		P-12	Echo Lake – In-lake alum treatment, if it benefits downstream waters	Section 5.3.2, Item 3a	2010	Potential (but unlikely) future work.
C		P-13	Echo Lake Addition - Flood Relief Implementation	Section 5.3.3.1	Listed in final VBWD Plan as Not Applicable	Plan indicates Mahtomedi will perform. See S-9.
		P-14	Long Lake - Water quality improvement projects – one of the following: 1) Stormwater alum treatment, 2) 3 wet detention basins and infiltration basin, or 3) 3 wet detention basins, replacing about 26 sanitary septic systems.	Section 5.5.2.1, Item 1	2010	VBWD updated its feasibility assessment report and implemented an in-lake alum treatment in 2008. A second dose of alum was conducted in 2009.
		P-15	Long Lake – Manage curlyleaf pondweed	Section 5.5.2.1, Item 2	2010	Potential future work.
		P-16	Long Lake – Prepare feasibility study and implement project to stabilize ravine from Weber Pond	Section 5.5.2.1, Item 3a	2008	Plans prepared in 2008 and construction completed in 2009.
		P-17	Long Lake – Work with Mn/DOT to eliminate sedimentation source from Highway 36	Section 5.5.2.1, Item 3b	2008	VBWD met with MnDOT in 2008 and will work with MnDOT as it plans to redesign the interchange.
		P-18	Long Lake Outlet Debris Removal	Section 5.5.3.3, Item 2	As needed	As needed. Debris was removed and a trash rack was installed in 2007.
		P-19	Lake DeMontreville – In-lake alum treatment water quality improvement project	Section 5.7.2.1, Item 1a	2011	VBWD evaluated Lake DeMontreville's water quality in 2008-2009. Improvement projects, if any, might be implemented after 2010.
		P-20	Lake DeMontreville – Curlyleaf pondweed management	Section 5.7.2.1, Item 1b	2011	Potential future work. The VBWD conducted a point-intercept aquatic plant survey in 2009 to prepare for a potential curlyleaf pondweed treatment.
		P-21	Lake DeMontreville – Implement sedimentation control project	Section 5.7.2.1	2008	VBWD evaluated the sedimentation issue in 2008 and implemented a project in 2009.

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VBWD Mission	VBWD Policy	Item Number from Table 7-1 of Plan	Item Description	Plan Reference Section	Proposed Implementation Year in Plan	Status/Accomplishments
		P-22	Lake Olson - In-lake alum treatment water quality improvement project	Section 5.8.2.1, Item 1	2012	Potential future work, based on monitoring results.
		P-23	Lake Olson – Curlyleaf pondweed management	Section 5.8.2.1, Item 2	2012	Potential future work.
		P-24	Lake Olson – Abandon old well	Section 5.8.3	2012	Future work.
		P-25	Lake Jane – Curlyleaf pondweed management	Section 5.9.2.1, Item 3	2013	Potential future work.
		P-26	Eagle Point Lake – Curlyleaf pondweed management	Section 5.12.2.1, Item 2a	2014	Potential future work.
		P-27	Eagle Point Lake wetlands – Reed canary grass eradication	Section 5.12.2.1, Item 2b	2014	Potential future work.
		P-28	Eagle Point Lake Dam Revegetation	Section 5.12.2.1, Item 4	2006	VBWD began this project in 2008.
		P-29	Horseshoe Lake – Curlyleaf pondweed management	Section 5.15.2, Item 4	2015	Potential future work.
		P-30	Rest Area Pond – implement, if approved, restricting outlet	Section 5.17.3	2014	Potential future work.
		P-31	Lake Edith – Curlyleaf pondweed management	Section 5.19.2, Item 3	2015	Potential future work.
		P-32	Valley Creek – implement habitat improvement and stabilization projects	Section 5.20.1, Items 3 and 4	2005-2008	Continues. Oakgreen Avenue Infiltration Basin was constructed in 2008. Two stream stabilization projects and one road runoff stabilization project were also constructed in 2008. More projects are being planned as finances allow.
		P-33	Valley Creek – implement dam rehabilitation or removal project	Section 5.20.3	2006	No longer planned – decision based on 2007 study and discussions.
		P-34	Sunnybrook Lake – Implement Flood Level Reduction Project or other listed options	Section 5.21.3.4, Items 2 and 3	2005	No project is feasible.

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VBWD Mission	VBWD Policy	Item Number from Table 7-1 of Plan	Item Description	Plan Reference Section	Proposed Implementation Year in Plan	Status/Accomplishments
		P-35	Goose Lake –implement gully stabilization project	Section 5.29.2, Item 2	2008	Plans prepared and project constructed in 2008-2009.
		P-36	Goetschel Pond –implement gully stabilization project	Section 5.31.2, Item 3	2007	Plans prepared and project constructed in 2008-2009.
B	WQ-G	P-37	Water quality improvement projects recommended in future water quality diagnostic feasibility studies	Section 4.2.7	As needed	An in-lake alum treatment improvement project was implemented at Sunfish Lake in 2008.