

6.01 GENERAL

Specific recommendations are presented here for achieving the goals of the watershed management plan that include the following.

1. Chlorides—Work toward changing the Lake Wingra chloride concentration from 120 mg/l to 40 mg/L that existed in the early 1970s.
2. Infiltration—Recover 10 percent of the 742 million gallons of lost infiltration because of development in the Lake Wingra Watershed.
3. Phosphorus—Of the 1,900 pounds of phosphorus generated in the watershed each year, reduce the phosphorus load reaching Lake Wingra by 50 percent compared to no controls.

6.02 RECOMMENDATIONS

The following recommendations are based on the discussion and analysis in the preceding sections.

1. Chlorides—Create and initiate an active Chloride Catalyst Team to work toward chloride reduction goals with actions identified in Section 2 of this plan.
2. Infiltration—Create and initiate an active Infiltration Catalyst Team to work toward infiltration goals with actions identified in Section 3 of this plan; 12 specific projects are identified for implementation.
3. Phosphorus—Create and initiate an active Phosphorus Catalyst Team to work toward infiltration goals with actions identified in Section 4 of this plan. At this time, five alternatives have been identified. It is recommended that the Steering Team choose one of these alternatives to move forward with into implementation.
4. The City of Madison should budget a yearly dollar amount for implementation of both infiltration and phosphorus-based projects seeking to implement all the projects recommended for construction in this plan.
5. Track yearly Catalyst Team activities and progress.
6. Consistently pilot new programs and initiatives for potential expansion of programs to larger geographic areas.
7. Periodically review the City's Stormwater Utility Rate Adjustment Policy for effectiveness in incentivizing construction of stormwater BMPs.
8. Maintain the City's P8 model to track progress on phosphorus reductions.
9. Maintain the chloride mass balance spreadsheet.

10. Apply for grant opportunities through WDNR's Urban Nonpoint Source and Stormwater Program, Dane County's Urban Water Quality Management Program, Yahara WINs Phosphorus Reducing Grant Program, among others.
11. The City of Madison should budget for yearly assistance by a consultant (as recommended by the Steering Team) to support Catalyst Team activities.

6.03 IMPLEMENTATION PLAN

For purposes of an implementation timeline, Table 6.03-1 is presents an initial look at how catalyst teams and projects could be implemented. It is intended to change and it is recommended that it be updated from time to time. It is envisioned that the City of Madison and the Friends of Lake Wingra will lead the Catalyst Teams and recruit/appoint team members.

Table 6.03-1 Implementation Plan

Addressed In Community Engagement Implementation Plan?	City Incentives Possible?	Grant Eligible?	Provides Both Infiltration and TP Control	Required To Meet Short-Term Goal	Example Action Schedule																	
					2015	2016	2017	2018	2019	2020	2021	2022	2023	Muni Depts	2025	Muni Gov	2027	Residents	2029	Commercial	2030	
					Endorsement of Plan																	
					Commitment to Plan Implementation																	
						X																
						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Yes						Chlorides																
Yes						Certification for Applicators																
Yes						Municipal incentives for certification																
Yes						Salt Use Guidelines																
Yes			Yes			Salt Use Ordinance																
Yes						Reduce Municipal Salt Use Pilot																
Yes			Yes			Reduce Municipal Salt Use Expanded Alt deicers, reduce mileage, expand anti-icing, reduce # applications																
Yes						Phosphorus																
Yes						Modified leaf collection pilot project																
Yes			Yes-Option 1			Expanded modified leaf collection																
						Modified street sweeping																
						Wetland harvesting pilot project																
			Yes-Option 5			Expanded wetland harvesting																
Yes	Maybe		Yes-Option 4			Expanded Erosion Control Enforcement																
No						Waterfowl management																
No						Pet waste enforcement																
Yes-Muni			Yes-Option 3			\$X00K	\$X00K	\$X00K	\$X00K	\$X00K	\$X00K	\$X00K	\$X00K	\$X00K	\$X00K	\$X00K	\$X00K	\$X00K	\$X00K	\$X00K	\$X00K	\$X00K
Yes-Muni			Yes-Option 2																			
Yes-Muni		UNPS & DC	Yes-Option 5																			
Yes-Muni		UNPS & DC	Yes-Option 1, 3, & 5				\$277,000															
Yes-Muni		UNPS-Awarded	Yes-Option 1, 3, & 5			\$299,000																
Yes-Muni		UNPS & YW	Yes-Option 3 & 5																			
Yes	Yes		No	Yes		Infiltration																
Yes		UNPS	Yes	Yes		Private commercial rain gardens																
Yes	Yes	UNPS	Yes	Yes		Commercial porous pavement pilot																
Yes	Yes		No	Yes		Commercial porous pavement expanded																
Yes	Yes		Yes	Yes		Downspout disconnection program																
Yes	Yes		Yes	Yes		Expanded Rain barrel program																
Yes	Yes	UNPS & YW	Yes	Yes			\$X0K	\$X0K	\$X0K	\$X0K	\$X0K	\$X0K	\$X0K	\$X0K	\$X0K	\$X0K	\$X0K	\$X0K	\$X0K	\$X0K	\$X0K	\$X0K
Yes			No	Yes		Terrance rain gardens																
Yes																						
Yes-Muni		UNPS, DC, & YW	Infiltr. Only*	Yes		\$X00K	\$X00K	\$X00K	\$X00K	\$X00K	\$X00K	\$X00K	\$X00K	\$X00K	\$X00K	\$X00K	\$X00K	\$X00K	\$X00K	\$X00K	\$X00K	\$X00K
Yes-Muni		UNPS, DC, & YW	Yes	Yes						\$884,000												
Yes-Muni		UNPS, DC, & YW	Yes	Yes								\$612,000										
Yes-Muni		UNPS, DC, & YW	Yes	Yes			\$532,000									\$1,819,400						
Yes-Muni		UNPS, DC, & YW	Yes	Yes				\$331,000														
Yes-Muni		UNPS, DC, & YW	Yes	Yes					\$249,000													

Example

UNPS = DNR Urban Nonpoint Source and Stormwater Grant Program
DC = Dane County Urban Water Quality Grant Program
YW = MMSD Yahara WINs Phosphorus Reducing Grant Program

*Arbor Hills Infiltration Facility and Devoils Park Bioretention are in Groundwater Watershed but Outside Surface Water Watershed