Issue Category	Issue	ID Source	Goals	Implementation Indicators	Implementation Programs	Status
Flooding						
Flood Damage Reduction and Mitigation			Minimize existing and future potential damage to property, public safety, and water resources due to flood events.			
	Wilmes Flooding	Woodbury, Past WMPs, Met Council		No increase in Wilmes HWL from development	Implementation & Maintenance, Regulatory	Flood-proofing program complete, regulatory ongoing
	ID and protect key flood storage	2007 WMP		Complete/Update inventory within 3 years; no net loss	Planning, Information, Regulatory	ID complete in SWW, still needed in EM and LSC regulatory ongoing
	Flooding Emergency Response Plan	2007 WMP		Complete within 6 years	Planning	Not Started
	ID critical inter-community flow crossings, set max rates, assess existing flow rates + enforcement	2007 WMP		Review/update within 3 years; implement necessary reductions with development	Planning, Information, Regulatory	ID complete; regulatory ongoing
	Mississippi River Flood Damage Reduction/Mitigation	Washington County, Municipalities		Maintain programmatic flexibility to respond if necessary	Planning, Implementation & Maintenance	Ongoing
	Clear Channel Pond Construction	2007 WMP, St Paul Park, Cottage Grove, MnDOT		Implement remaining portions of project as site develops	Implementation & Maintenance	Stalled
	O'Conners Lake Levels/Flooding	LSCWMO		Maintain current HWL	Planning, Regulatory	Ongoing
Overflow		Municipalities, past WMPs, Guidance Docs, Washington County, Met Council	Operational by 2020	Phase III complete by 2017; Phase IV complete by 2018; Phase V complete by 1/1/2020	Planning, Implementation & Maintenance	Phase II of V in construction
Watershed Alterations						
Surface water degradation and impairment			Protection and restoration of District resources to meet local resource goals and State standards			
	Impairment Source ID	2007 WMP		Complete management plan for all lakes/streams within 6 years; re-assess plans completed plans every 3 years to adjust strategy	Planning	Complete for waters fully within District; pending TMDLs for Big Rivers
	Protection of Resources	2007 WMP		Complete management plan for all lakes/streams within 6 years; re-assess plans completed plans every 3 years to adjust strategy; prevent new impairment listings	Planning, Regulatory, Implementation & Maintenance	Ongoing
	Restoration of Resources	2007 WMP; Met Council; MnDNR		Achieve identified watershed load reductions from completed management	Planning, Regulatory, Implementation & Maintenance	Ongoing

		1	T		1	1
				plans; Continue various		
				implementation		
				programs; ultimately de-		
				list; Coordinate CIP with		
				Cities through TAC		
	Protect high quality wetlands	2007 WMP; BWSR/WCA		No net loss in acreage or	Regulatory	ID complete, no efforts yet
				functions		specific to protection
	Maintain WQ in landlocked basins	2007 WMP; LSCWMO		No new impairments	Regulatory,	Ongoing
				(incl Powers, La, and	Implementation &	
				OConners)	Maintenance	
	Regional TMDLs (Big Rivers)	2007 WMP, MPCA		Consider adoption of	Planning, Regulatory,	Participation in
				completed TMDLs for	Implementation &	development ongoing, none
				Statewide and Regional	Maintenance	finalized
				resources for which		
				actions are identified for		
				SWWD		
	Trout Brook Remeander	LSCWMO, 2007 WMO, TB		Move to work plan		30% design complete,
		Mgmt Plan; MnDNR		·		fundraising
	Trout Brook Riparian Restoration	LSCWMO, 2007 WMO, TB		Move to work plan		Ongoing
	'	Mgmt Plan		'		
	Trout Brook Watershed Restoration	LSCWMO, 2007 WMO, TB		Move to work plan		Ongoing
		Mgmt Plan				
	Grey Cloud Flow Restoration	2007 WMP, DNR, NPS,		Move to work plan		Ready for final design
	City Gloud How Nesteration	USFWS, USACE, GCIT		more to work plan		neady for inter design
	Lions Park Retrofit, St Paul Park	St. Paul Park		Move to work plan		Not started
	Agriculture—little regulation, impacts from water use,	CAC		Develop incentive	Planning, Implementation	Not Started
	fertilizer migration to ground and surface water, soil loss,			program for BMP	& Maintenance	Not Started
	etc			implementation on ag	a wantenance	
				lands within 3 years;		
				Identify willing		
				landowners and begin		
				pilot ag BMP research		
				program within 6 years		
	Chlorides	TAC		Implement actions from	Planning, Implementation	Ongoing
	Chlorides	TAC		Metro Chloride TMDL;	& Maintenance	Origonia
				Continue incentives to	& Maintenance	
				improve de-icing		
				•		
				operations; Implement		
				educational efforts to		
				reduce salt use on		
	Function Continue in sets	TAG		private property	Diamaine translation (1911)	Not Chart
	Emerging Contaminants	TAC		Evaluate impact of	Planning, Implementation	Not Started
				emerging contaminants	& Maintenance	
				and identify District		
				programs or actions to		
21 K 61				control or mitigate risk		
Bluff, Streambank, and						
Shoreland Erosion	0 7 (6 1 1 1 1 1 1 1	1				1
	State Buffer Initiative—WDs to Enforce	MnDNR		Develop reg measures to	Regulatory	New
				comply with State Reqs		
	Bluff and Ravine erosion	LSCWMO, 2007 WMP;		Establish and maintain	Planning, Regulatory,	Bluff rule in place needs to
		MnDNR; CAC		50' buffer on all bluffs,	Implementation &	be expanded, no proactive
				ravines, lakes, and	Maintenance	efforts to date

				streams; ID excessively		
				eroding features within 3 years; Stabilize within		
				10 years		
	Ravine Park East Tributary Stabilization	Met Council		None. Should be	Washington County actions	New
				addressed by	likely eligible for SWWD	
				Washington Co Park	assistance through	
				master plan	incentive programs	
W Sustainability						
Supply (mining and			Implement conservation efforts			
conservation)			to ensure long term viability of			
			groundwater resources in South Washington County.			
	ID and preserve optimal infiltration areas	2007 WMP; WashCo;	washington county.			Complete
		MnDNR				,
	Assess temporal significance of recharge	2007 WMP, WashCo;				Complete
		MnDNR				
	Implement actions identified in regional planning efforts	MnDNR, WashCo		Implement local action	Planning, Implementation	Not Started
	Books to a defeable with the second of the	2007 MAR MALLES		items	& Maintenance	Niel Charles
	Promote sustainable withdrawals to prevent groundwater	2007 WMP, WashCo, Met		Needs to MnDNR or		Not Started
	mining	Counicl, MnDNR		WashCo lead. Will assist if needed		
	Permitting small users (Potential role of WDs)	MnDNR, WashCo		WD role?		Authority not currently
	To this table of the state of t					used by SWWD
	Promote conservation	WashCo, MnDNR		Incentivize practices that	Planning, Implementation	Ongoing
				reduce water demand	& Maintenance	
				on aquifers		
Protection			Prevent impacts to groundwater			
			from District projects and public			
	ID/Imventory Kerst Features	2007 WAR COMMAD	opperations.	Continue enforcement	Dogulaton	Ongoing
	ID/Inventory Karst Features	2007 WMP, LSCWMO		Continue enforcement of existing Karst rules	Regulatory	Ongoing
	Prevent Pollution	WashCo; MDH;		Consider of pollution	Planning, Implementation	Ongoing
	Trevent Fondton	Municipalities		potential in siting and	& Maintenance	Chigomig
				design of BMPs;		
				Continue to work with		
				agencies to improve de-		
				icing operations		
	Lake Elmo/Oakdale Special Well Construction Area	MDH, DNR, 2007 WMP		Use alternative	Planning, Regulatory	Ongoing
				compliance for		
	CW/CWL december 2	Maril Co. Mari Co. 11		infiltration	Plantin	ID Consider Made Co
	SW/GW Interactions	WashCo; Met Council		Work with partners to assess risk to	Planning	ID Complete—WashCo; What to do with it?
				groundwater resources		vviidt to do With it?
				from known interactions		
				(and vice versa);		
				Implement increased		
				protections where		
				appropriate		
	Research: Regional Infiltration, Impacts to streams from	WashCo; MDH; MPCA		Continue work with	Planning	Ongoing
	withdrawals			partners to assess		
				potential impacts		

				(positive and negative)		
				of regional infiltration at		
				CDSF on groundwater;		
				Work with DNR and		
				WashCo to identify		
				resource risks from		
				additional groundwater		
				appropriation		
Natural Resources						
Habitat			Protect, restore, and reconstruct			
			native terrestrial and aquatic			
			habitat for the benefit of resource			
			management.			
Aquatic Inva	asive Species	MnDNR; WashCo	management	Participate in	Planning	Not Started
Aquatic inva	asive species	Will Divin, washed		development of regional		1vot Started
				programs prevention		
		1		and control		
Terrestrial Ir	nvasives (i.e. buckthorn)	MnDNR		Participate in	Planning	Not Started
				development of regional		
				programs prevention		
				and control		
Protect rare	species	MnDNR		Avoid impacts from	Implementation &	Not started
	•			District funded projects	Maintenance	
Implement i	in-Lake Management	SWWD Lake Mgmt Plans;		Survey aquatic veg every	Planning, Implementation	Ongoing
Implement	in-Lake Management					Oligoling
		MnDNR		3 years; implement	& Maintenance	
				actions in adopted		
				management plans		
Protect and	Restore high quality habitats	2007 WMP		Avoid impacts from	Regulatory (buffers),	Ongoing
				District funded projects	Implementation &	
					Maintenance	
ID areas with	h potential for protection, restoration, or that	2007 WMP		ID within 6 years,	Planning	Not Started
	corporated into state wildlife areas			incorporate into		
could be me	orporated into state whaline areas			1		
				greenway plan where		
A	a share and of shared a sure and a sure and the state of the	2007 W/M/D W/==1-C-		feasible	Dogulator: /b.uffa\	Not started
	achment of development on high quality	2007 WMP, WashCo		Avoid impacts from	Regulatory (buffers),	Not started
habitats				District funded projects	Implementation &	
					Maintenance	
Promote use	e of site appropriate plants	MnDNR		Promote use of site	Implementation &	Ongoing (district projects)
				appropriate plants on	Maintenance	
				District funded projects		
Pollinators		CAC		Promote compliance	Implementation &	Not Started
Similators				with guidance for	Maintenance	- 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3
				pollinator friendly design	airretianee	
				practices as part of		
				District funded projects;		
				Consider preservation		
				and restoration of native		
				habitat and benefits to		
				pollinators in allocating		
				incentive funding.		
Dromote est	tablishment of grassland over turf	MnDNR		Develop credit	Regulatory	Ongoing
Fromote est	tablistilient of grassiana over turi	IVIIIDINI		·	Negulatory	
				mechanism to		

					1	
				incentivize native cover		
				over turf within 6 years.		
	Help minimize conversion of native forestland	MnDNR		Develop credit	Regulatory	Not started
				mechanism to		
				incentivize preservation		
				of mature trees during		
				development within 6		
				years.		
	Tree Inventory	MnDNR		N/A	N/A	Municipal Role
	Greenway ID and Implementation—preserve and connect	2003 & 2007 WMP;		Implement incentives	Planning, Regulatory,	CDO portions complete,
	open spaces necessary for conveyance of water and	MnDNR		program and buffer regs	Implementation &	rest not started
	protection of water quality			to established planned	Maintenance	
				greenway		
Climate Change						
Adaptive Management			Facilitate increasing resilience of			
			District resources and public			
			infrastructure through			
			development of information and			
			strategies and implementation of			
			accepted climate adaptation			
			practices			
	Assess and manage risks of changing climate		procuees	Assess adaptive capacity	Planning, Regulatory	Ongoing (regs)
				of District resources and	, iaiiiiig, iiegaiatei y	J. 180.118 (1.585)
				systems in developing		
				projects; require use of		
				up to date hydrologic		
				data for meeting District		
				standards		
	Work with Cities to plan for changing climate and	CAC		Utilize District models	Planning, Implementation	Ongoing
	implement improvements to increase resilience	G. 10		and predicted scenarios	& Maintenance	0.180.118
				to identify infrastructure		
				vulnerabilities within 6		
				years; Utilize CCIP to		
				assist Cities in increasing		
				system resiliency		
	Assess changing risks to groundwater—quantity and	CAC		Utilize District and	Planning, Implementation	Not started
	quality—from changing climate (increased demand,			County models to	& Maintenance	IVOL Started
	changing interactions with surface water)			evaluate potential	- Widilitellance	
	changing interactions with surface water)			changes in Surface		
				water/groundwater		
				interactions dynamics;		
				Promote use of		
				alternative landscapes		
				•		
				which require less		
				water; promote water		
				re-use where feasible to reduce aquifer demand		
Information				reduce aquiler demand		
Information			0			
Resource Assessment			Operate a monitoring program			
			adequate to establish baseline			
			conditions and identify long term			
			trends; Operate a program			

			adequate to detect changes in loading rates as a result of District implementation			
	Operate Groundwater Monitoring Program	MnDNR; WashCo		Continue current GW monitoring efforts, work with partners to expand as appropriate	Implementation & Maintenance	Ongoing
	Operate Surface Water Monitoring Program	WMPs, Rule 8410		Implement SWWD Monitoring Plan	Implementation & Maintenance	Ongoing
Modeling			Maintain updated, District-wide hydrological modeling to inform District and Municipal management of resources and infrastructure			
	District-wide hydrologic model	WMP		Complete within 6 years, annually update to reflect development; calibrate to monitoring data every 3 years	Planning	Ongoing
Research	Standard modeling specifications	WMP	Manage the Watershed and its	Complete within 3 years	Planning	Ongoing
			resources using the best known practices and strategies			
	Pursue/support efforts to inform and improve management efforts of the District and its partners	Staff		ID and refine research and information needs as ongoing role of TAC; Pursue opportunities to provide for identified needs; annually publish summary of completed and ongoing efforts as part of annual report	Planning, Education & Information	Not Started
Efficiency and						
Accountability Results Based			Utilize a Results Based			
Accountability			Accountability approach in evaluating and refining implementation strategies for achieving resource goals and to evaluate program performance			
	RBA	Washington County		Ongoing development and use of documented strategies and actions to achieve established resource goals; Incorporate strategy documentation, progress evaluation, and annual workplan into annual report; amend watershed plan as necessary to provide the	Planning	New

			1	District with programs		
				and tools necessary to		
				implement identified		
				strategies		
	Progress Evaluation	2007 WMP; MN Rule 8410;	3		Dlanning	Ongoing
	Progress Evaluation		r	Biennially evaluate	Planning	Ongoing
		PRAP		District progress in		
				achieving identified		
				issue goals.		
Uniform Standards			Establish and maintain District			
			controls necessary to achieve			
			established District resource			
			goals, comply with mandated			
			permits and programs, and			
			maximize regulatory consistency			
			with neighboring jurisdictions			
	Uniform standards across Municipalities	2007 WMP		Municipal	Planning, Regulatory	Ongoing, recent rule update
				adoption/compliance		
				with District Rules within		
				2 years of adoption		
	Compliance with State permits	State agencies; 2007 WMP		Regularly update District	Planning	Ongoing, recent rule update
				Rules to keep pace with		
				changing resource issues		
				and mandated		
				regulatory programs		
				(MS4, NPDES)		
	Uniform standards across WD boundaries	WDs; Municipalities; MN		Work with Washington	Planning	Should be revisited,
		Rule 8410		County Consortium and		ongoing/sporadic effort at
				neighboring WDs to ID		consortium level
				and implement		
				consistency where		
				possible.		
	Support Low Impact Development	MnDNR		Prevent degradation and	Regulatory	Ongoing
				promote enhancement	, and the second	
				of Water Quality of		
				District resources—		
				statistical evaluation of		
				WQ trends.		
	Erosion & Sediment Control Enforcement	MPCA		Ensure compliance	Planning, Regulatory	Ongoing
	Erosion & Sediment Control Emorecment	TVII C/ C		across full District	l laming, regulatory	Cingoning
				jurisdiction using		
				cooperative/coordinated		
				-		
				approach that limits		
Collaboration /			Limit duplication of algorisms	duplication of efforts.		
Collaboration/			Limit duplication of planning and			
Cooperation			implementation efforts by the			
			District and its State and Local			
			partners; Create efficiencies in			
			implementation through			
			increased partnership and			
			coordination of CIP			
	Improve Collaboration and Information Sharing	WashCo; MnDNR; BWSR;		Collaborate and	Planning	Ongoing
		MPCA; Met Council		coordinate agency		
				efforts through TAC;		

Incorporate local input
through CAC; Participate
in State and Regional
advisory committees;
combine local
implementation efforts
to gain economy of scale