

HUC-10 Subwatershed	Waterbody and Location		Parameter (incl. non-pollutant stressors)	Water Quality		Strategies (see key below)	Estimated Scale of Adoption Needed	Governmental Units with Primary Responsibility									Timeline	Interim 10-yr Milestones					
				Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag							
All	All	All				NPDES Point Source Compliance	Watershed wide, MPCA permitted facilities								X								
						Shoreland ordinance buffer compliance (390, 391, 393)	Watershed wide, DNR protected waters				X				X								
						Soil Erosion Control Practices to include Soil Health	Watershed wide, row crop acres	X	X									X					
						Water Detention	Headwaters	X	X														
						Nutrient Management	Broadly adopt spring application		X														
All	All	All				Feedlot Regulation								X									
All	All	All				SSTS Regulation								X									
Little Cedar River, Middle Fork (07080201)						<u>Practices to Address Nitrate Stressor</u>																	
						Saturated Buffers	Riparian Areas	X	X									X					
						Controlled Drainage	Flat topography	X	X										X				
						Constructed Wetlands CP 39		X	X									X					
						<u>Practices to Address Phosphorus Stressor</u>																	
						Filter Strips	Watershed Wide	X	X									X					
						Saturated Buffers	Riparian Areas	X	X										X				
						Constructed Wetlands CP 39	Upstream Watersheds	X	X										X				
						<u>Practices to Address Dissolved Oxygen Stressor</u>																	
						Saturated Buffers	Riparian Areas	X	X										X				
						Filter Strips	Watershed Wide	X	X			X						X					
						Constructed Wetlands CP 39	Upstream Watersheds	X	X										X				
						<u>Practices to address Nitrate Stressor</u>																	
						Saturated Buffers	Riparian Areas	X	X											X			
						Controlled Drainage	Flat topography	X	X											X			
Incentives for Alternative Drainage	Inlets and Bioreactors	X	X										X										
Constructed Wetlands CP 39	Upstream Watersheds	X	X										X										

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	Waterbody (ID)	Location and Upstream Influence Counties		Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag								
						<u>Practices to Address Lack of Habitat</u>																		
						In Stream BMPs	Stretches with no habitat	X	X															
						Stream Bank Stabilization	Eroded Streambanks	X	X															
						Ravine Stabilization	Upstream Watersheds	X	X								X							
						Filter Strips	Watershed Wide	X	X		X						X							
						<u>Practices to Address Altered Hydrology Stressor</u>																		
						Wetland Restorations	Upstream Watersheds	X	X								X							
						CP-39 Constructed Wetlands	Upstream Watersheds	X	X								X							
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X									X						
						Controlled Drainage		X	X									X						
						<u>Practices to address Nitrate Stressor</u>																		
						Saturated Buffers	Riparian Areas	X	X									X						
						Controlled Drainage	Flat topography	X	X									X						
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X								X							
						Constructed Wetlands CP 39	Upstream Watersheds	X	X								X							
						<u>Practices to Address Altered Hydrology Stressor</u>																		
						Wetland Restorations	Upstream Watersheds	X	X								X							
						CP-39 Constructed Wetlands	Upstream Watersheds	X	X								X							
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X									X						
						Controlled Drainage	Flat topography	X	X									X						
						<u>Practices to Address Turbidity Stressor</u>																		
						Filter Strips	Watershed Wide	X	X		X					X								

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				Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag						
						Shoreline Stabilizations	Riparian Areas	X	X													
						Ravine Stabilization	Upstream Watersheds	X	X													
			Turbidity	From 2003-2013 the Average Turbidity Level was 25.47 NTU with 38.4% of samples exceeding the 25 NTU standard out of 39 samples	To reduce the average Turbidity level to below the 25NTU standard, and to reduce the total percentage of threshold exceedences within a 10 year sample period	Filter Strips	Watershed Wide	x	x							x	x					
									Shoreline Stabilizations	Eroded Streambanks	x	x							x			
									Ravine Stabilization	Upstream Watersheds	x	x										
									<u>Practices to address Elevated Nitrate Stressor</u>													
						Saturated Buffers	Riparian Areas	X	X								X					
						Controlled Drainage	Flat topography	X	X								X					
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X							X						
						Constructed Wetlands CP 39	Upstream Watersheds	X	X							X						
						<u>Practices to Address Elevated Phosphorus Stressor</u>																
						Tillage BMPs with emphasis on Strip Till	Corn and Soybean Ground	X	X							X						
						Side Inlets and Buffers adjacent to inlets	Ditches	X	X								X					
						<u>Practices to Address Lack of Habitat Stressor</u>																
						In Stream BMPs	Stretches with no habitat	X	X													
						Stream Bank Stabilization	Eroded Streambanks	X	X													
						Ravine Stabilization	Upstream Watersheds	X	X							X						

HUC-10 Subwatershed	Waterbody and Location		Parameter (incl. non-pollutant stressors)	Water Quality		Strategies (see key below)	Estimated Scale of Adoption Needed	Governmental Units with Primary Responsibility									Timeline	Interim 10-yr Milestones					
				Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag							
Rose Creek to Woodbury Creek (501)	Mower					Filter Strips	Watershed Wide	X	X		X					X							
						<u>Practices to Address Altered Hydrology Stressor</u>																	
						Wetland Restorations	Upstream Watersheds	X	X									X					
						CP-39 Constructed Wetlands	Upstream Watersheds	X	X									X					
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X											X			
						Controlled Drainage	Flat topography	X	X											X			
						<u>Practices to Address Dissolved Oxygen Stressor</u>																	
						Saturated Buffers	Riparian Areas	X	X										X				
						Filter Strips	Watershed Wide	X	X		X								X				
						Constructed Wetlands CP 39	Upstream Watersheds	X	X										X				
						<u>Practices to Address Turbidity/ Total Suspended Solids Stressor</u>																	
						Filter Strips	Watershed Wide	X	X		X								X				
			Shoreline Stabilizations	Eroded Streambanks	X	X											X						
			Ravine Stabilization	Upstream Watersheds	X	X											X						
			<u>Practices to address Elevated Nitrate Stressor</u>																				
			Saturated Buffers	Riparian Areas	X	X												X					
			Controlled Drainage	Flat topography	X	X											X						
			Incentives for Alternative Drainage	Inlets and Bioreactors	X	X											X						
			Constructed Wetlands CP 39	Upstream Watersheds	X	X											X						
			<u>Practices to Address Elevated Phosphorus Stressor</u>																				

HUC-10 Subwatershed	Waterbody and Location		Parameter (incl. non-pollutant stressors)	Water Quality		Strategies (see key below)	Estimated Scale of Adoption Needed	Governmental Units with Primary Responsibility									Timeline	Interim 10-yr Milestones						
	Waterbody (ID)	Location and Upstream Influence Counties		Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag								
						Tillage BMPs with emphasis on Strip Till	Corn and Soybean Ground	X	X							X								
						Side Inlets and Buffers adjacent to inlets	Ditches	X	X									X						
						<u>Practices to Address Lack of Habitat Stressor</u>																		
						In Stream BMPs	Stretches with no habitat	X	X															
						Stream Bank Stabilization	Eroded Streambanks	X	X															
						Ravine Stabilization	Upstream Watersheds	X	X									X						
						Filter Strips	Watershed Wide	X	X		X						X							
						<u>Practices to Address Altered Hydrology Stressor</u>																		
						Wetland Restorations	Upstream Watersheds	X	X									X						
						CP-39 Constructed Wetlands	Upstream Watersheds	X	X									X						
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X										X					
						Controlled Drainage	Flat topography	X	X											X				
						<u>Practices to Address Dissolved Oxygen Stressor</u>																		
						Saturated Buffers	Riparian Areas	X	X									X						
						Filter Strips	Watershed Wide	X	X		X							X						
						Constructed Wetlands CP 39	Upstream Watersheds	X	X									X						
						<u>Practices to Address Turbidity/ Total Suspended Solids Stressor</u>																		
						Filter Strips	Watershed Wide	X	X		X			X				X						
						Shoreline Stabilizations	Eroded Streambanks	X	X									X						
						Ravine Stabilization	Upstream Watersheds	X	X									X						
Filter Strips	Watershed Wide	X	X									X												

HUC-10 Subwatershed	Waterbody and Location		Parameter (incl. non-pollutant stressors)	Water Quality		Strategies (see key below)	Estimated Scale of Adoption Needed	Governmental Units with Primary Responsibility									Timeline	Interim 10-yr Milestones				
	Waterbody (ID)	Location and Upstream Influence Counties		Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag						
Cedar River (07080201)	Roberts Creek to the Upper Austin Dam (502)	Mower	Fecal Coliform E. Coli Levels averaged 555 cfu/100ml in sampling years 2008-2013. Samples exceeded the 1260mpn threshold 3 times out of 17 Samples	To reduce the total number of threshold exceedences within a 5 year sampling period	Feedlot Improvements	Non-Compliant Dairy and Beef		X		X												
					Septic Improvements	Watershed Wide		X		X												
	Roberts Creek to the Upper Austin Dam (502)	Mower	Turbidity From 2003-2013 the Average Turbidity Level was 23.57 NTU with 18.3% of samples exceeding the 25 NTU standard out of 127 samples	To keep the average Turbidity level to below the 25NTU standard, and to reduce the total percentage of threshold exceedences within a 10 year sample period	Filter Strips	Watershed Wide	X	X							X							
					Shoreline Stabilizations	Eroded Streambanks	X	X							X							
					Ravine Stabilization	Upstream Watersheds	X	X							X							
	Roberts Creek to the Upper Austin Dam (502)	Mower	Fecal Coliform E. Coli Levels averaged 555 cfu/100ml in sampling years 2008-2013. Samples exceeded the 1260mpn threshold 3 times out of 17 Samples	To reduce the total number of threshold exceedences within a 5 year sampling period	Filter Strips	Watershed Wide	X	X						X								
					Feedlot Improvements	Non-Compliant Dairy and Beef		X		X												
					Septic Improvements	Watershed Wide		X		X												
Roberts Creek to the Upper Austin Dam (502)	Mower	<i>Practices to address Elevated Nitrate Stressor</i>		Saturated Buffers	Riparian Areas	X	X							X								
				Controlled Drainage	Flat topography	X	X							X								
				Incentives for Alternative Drainage	Inlets and Bioreactors	X	X							X								
				Constructed Wetlands CP 39	Upstream Watersheds	X	X							X								

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	Waterbody (ID)	Location and Upstream Influence Counties		Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag								
Headwaters to Roberts Creek (503)	Dodge and Mower					<u>Practices to Address Elevated Phosphorus Stressor</u>																		
						Tillage BMPs with emphasis on Strip Till	Corn and Soybean Ground	X	X						X		X							
						Side Inlets and Buffers adjacent to inlets	Ditches	X	X							X								
						<u>Practices to Address Lack of Habitat Stressor</u>																		
						In Stream BMPs	Stretches with no habitat	X	X															
						Stream Bank Stabilization	Eroded Streambanks	X	X															
						Ravine Stabilization	Upstream Watersheds	X	X								X							
						Filter Strips	Watershed Wide	X	X		X						X							
						<u>Practices to Address Altered Hydrology Stressor</u>																		
						Wetland Restorations	Upstream Watersheds	X	X								X							
						CP-39 Constructed Wetlands	Upstream Watersheds	X	X								X							
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X									X						
						Controlled Drainage	Flat topography	X	X										X					
												<u>Practices to address elevated E Coli</u>												
Dobbins to Turtle (514)	Mower		E. Coli	Geometric Means from June and July 2009 and 2010 are 153 MPN/100mL and 185MPN/100mL. One sample exceeded 1260 MPN/100mL over 15 total samples	To Reduce Geometric Means below the 126 MPN/100mL standard, and to have zero one-time sampling occurrences over the 1260 MPN/100mL Standard	Filter Strips	Watershed Wide	X	X							X								
						Feedlot Improvements	Non-Compliant Dairy and Beef		X		X					X								
						Septic Improvements	Non-Compliant SSTS		X		X													
						WWTP Improvements	Non-Compliant WWTP						X	X										

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				Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag								
Turtle Creek To Rose Creek (515)	Mower		Turbidity	Of 434 Samples taken over a 6 year span between 2007 and 2013, the average turbidity level was 31.86 NTU's. 21% of the samples exceeded the 25 NTU standard	To reduce the average Turbidity level to below the 25NTU standard, and to reduce the total percentage of threshold exceedences within a 6 year sample period	Filter Strips	Watershed Wide	X	X								X	X						
						Shoreline Stabilizations	Eroded Streambanks	X	X								X							
						Ravine Stabilization	Upstream Watersheds	X	X															
						Side Inlets	Ditches	X	X		X							X						
			<u>Practices to address Elevated Nitrate Stressor</u>																					
			Saturated Buffers	Riparian Areas	X	X														X				
			Controlled Drainage	Flat topography	X	X														X				
			Incentives for Alternative Drainage	Inlets and Bioreactors	X	X													X					
			Constructed Wetlands CP 39	Upstream Watersheds	X	X													X					
			<u>Practices to Address Elevated Phosphorus Stressor</u>																					
			Tillage BMPs with emphasis on Strip Till	Corn and Soybean Ground	X	X													X					
			Side Inlets and Buffers adjacent to inlets	Ditches	X	X														X				
			<u>Practices to Address Lack of Habitat Stressor</u>																					
			In Stream BMPs	Stretches with no habitat	X	X																		
			Stream Bank Stabilization	Eroded Streambanks	X	X																		
			Ravine Stabilization	Upstream Watersheds	X	X													X					
Filter Strips	Watershed Wide	X	X		X											X								
<u>Practices to Address Altered Hydrology Stressor</u>																								
								X	X								X							

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	Waterbody (ID)	Location and Upstream Influence Counties		Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag								
						Wetland Restorations	Upstream Watersheds	X	X							X								
						CP-39 Constructed Wetlands	Upstream Watersheds	X	X								X							
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X								X							
						Controlled Drainage	Flat topography	X	X								X							
						<u>Practices to Address Turbidity Stressor</u>																		
						Filter Strips	Watershed Wide	X	X		X						X							
						Shoreline Stabilizations	Eroded Streambanks	X	X								X							
						Ravine Stabilization	Upstream Watersheds	X	X								X							
						<u>Practices to Address Dissolved Oxygen Stressor</u>																		
						Saturated Buffers	Riparian Areas	X	X								X							
						Filter Strips	Watershed Wide	X	X		X						X							
						Constructed Wetlands CP 39	Upstream Watersheds	X	X								X							
						<u>Practices to Address Turbidity/ Total Suspended Solids Stressor</u>																		
						Filter Strips	Watershed Wide	X	X		X						X							
						Shoreline Stabilizations	Eroded Streambanks	X	X								X							
						Ravine Stabilization	Upstream Watersheds	X	X								X							
						<u>Practices to Address E.Coli Stressor</u>																		
						Woodbury Cr to Iowa Border (516)	Mower		E. coli	Geometric means from June and July 2009 and 2010 exceed the 126 MPN/100mL standard. Average concentration is 293 MPN/100mL	To Reduce Geometric Means and overall sample average below the 126 MPN/100mL standard	Filter Strips	Watershed Wide	X	X		X					X		
												Feedlot Improvements	non-compliant beef and dairy			X		X						
												Septic Improvements	Non-Compliant SSTS			X		X						

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				Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag					
			Turbidity	Out of 12 samples from 2007-2010, 16.6% of the samples exceeded the 25 NTU threshold. Average Turbidity was 19.1 NTU	To reduce the percentage of threshold exceedences and to keep the average turbidity levels below the 25NTU Threshold	<u>Practices to Address Elevated Turbidity</u>															
						Filter Strips	Watershed Wide	X	X								X				
						Shoreline Stabilizations	Eroded Streambanks	X	X												
						Ravine Stabilization	Upstream Watersheds	X	X												
						<u>Practices to Address Elevated Phosphorus Stressor</u>															
						Tillage BMPs with emphasis on Strip Till	Corn and Soybean Ground	X	X						X			X			
						Side Inlets and Buffers adjacent to inlets	Ditches	X	X						X						
						<u>Practices to Address Lack of Habitat Stressor</u>															
						In Stream BMPs	Stretches with no habitat	X	X												
						Stream Bank Stabilization	Eroded Streambanks	X	X												
						Ravine Stabilization	Upstream Watersheds	X	X								X				
						Filter Strips		X	X		X						X				
						<u>Practices to Address Altered Hydrology Stressor</u>															
						Wetland Restorations	Upstream Watersheds	X	X								X				
						CP-39 Constructed Wetlands	Upstream Watersheds	X	X								X				
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X									X			
						Controlled Drainage	Flat topography	X	X									X			
						<u>Practices to Address Total Suspended Solids Stressor</u>															
			Filter Strips	Watershed Wide	X	X		X						X							

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	Waterbody (ID)	Location and Upstream Influence Counties		Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag				
						Shoreline Stabilizations	Eroded Streambanks	X	X								X			
						Ravine Stabilization	Upstream Watersheds	X	X								X			
						<u>Practices to address Elevated Nitrate Stressor</u>														
						Saturated Buffers	Riparian Areas	X	X									X		
						Controlled Drainage	Flat topography	X	X									X		
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X									X		
						Constructed Wetlands CP 39	Upstream Watersheds	X	X									X		
						<u>Practices to Address Altered Hydrology Stressor</u>														
						Wetland Restorations	Upstream Watersheds	X	X									X		
						CP-39 Constructed Wetlands	Upstream Watersheds	X	X									X		
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X									X		
						Controlled Drainage	Flat topography	X	X									X		
						<u>Practices to Address Lack of Habitat Stressor</u>														
						In Stream BMPs	Stretches with no habitat	X	X											
						Stream Bank Stabilization	Eroded Streambanks	X	X											
						Ravine Stabilization	Upstream Watersheds	X	X									X		
						Filter Strips	Watershed Wide	X	X			X						X		
						<u>Practices to Address Turbidity Stressor</u>														
						Filter Strips	Watershed Wide	X	X			X						X		
						Shoreline Stabilizations	Eroded Streambanks	X	X									X		
						Ravine Stabilization	Upstream Watersheds	X	X									X		

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	Waterbody (ID)	Location and Upstream Influence Counties		Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag									
						<u>Practices to address Elevated Nitrate Stressor</u>																			
						Saturated Buffers	Riparian Areas	X	X									X							
						Controlled Drainage	Flat topography	X	X									X							
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X								X								
						Constructed Wetlands CP 39	Upstream Watersheds	X	X								X								
						<u>Practices to Address Altered Hydrology Stressor</u>																			
						Wetland Restorations	Upstream Watersheds	X	X								X								
						CP-39 Constructed Wetlands	Upstream Watersheds	X	X								X								
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X									X							
						Controlled Drainage	Flat topography	X	X									X							
						<u>Practices to Address Lack of Habitat Stressor</u>																			
						In Stream BMPs	stretches with no habitat	X	X																
						Stream Bank Stabilization	Eroded Streambanks	X	X																
						Ravine Stabilization	Upstream Watersheds	X	X								X								
						Filter Strips	Watershed Wide	X	X				X				X								
						<u>Practices to Address Turbidity Stressor</u>																			
						Filter Strips	Watershed Wide	X	X				X				X								
						Shoreline Stabilizations	Eroded Streambanks	X	X								X								
						Ravine Stabilization	Upstream Watersheds	X	X								X								
						Filter Strips	Watershed Wide																		
<u>Practices to Address Altered Hydrology Stressor</u>																									
Wetland Restorations	Watershed Wide	X	X								X														

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	Waterbody (ID)	Location and Upstream Influence Counties		Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag								
						CP-39 Constructed Wetlands	Upstream Watersheds	X	X							X								
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X								X							
						Controlled Drainage	Flat topography	X	X									X						
						<u>Practices to Address Total Suspended Solids Stressor</u>																		
						Filter Strips	Watershed Wide	X	X		X						X							
						Shoreline Stabilizations	Eroded Streambanks	X	X								X							
						Ravine Stabilization	Upstream Watersheds	X	X								X							
						<u>Practices to address Elevated Nitrate Stressor</u>																		
						Saturated Buffers	Riparian Areas	X	X									X						
						Controlled Drainage	Flat topography	X	X									X						
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X								X							
						<u>Practices to Address Lack of Habitat Stressor</u>																		
						In Stream BMPs	Stretches with no habitat	X	X															
						Stream Bank Stabilization	Eroded Streambanks	X	X															
			Ravine Stabilization	Upstream Watersheds	X	X								X										
			Filter Strips	Watershed Wide	X	X		X						X										
			<u>Practices to Address Altered Hydrology Stressor</u>																					
			Wetland Restorations	Upstream Watersheds	X	X								X										
			CP-39 Constructed Wetlands	Upstream Watersheds	X	X								X										
			Incentives for Alternative Drainage	Inlets and Bioreactors	X	X									X									
			Controlled Drainage	Flat topography	X	X									X									
			<u>Practices to Address Total Suspended Solids Stressor</u>																					
			Filter Strips	Watershed Wide	X	X		X				X			X									

HUC-10 Subwatershed	Waterbody and Location		Parameter (incl. non-pollutant stressors)	Water Quality		Strategies (see key below)	Estimated Scale of Adoption Needed	Governmental Units with Primary Responsibility									Timeline	Interim 10-yr Milestones							
				Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag									
			F-IBI	F-IBI scored 39 in 2009	To increase the F-IBI score closer to the threshold of 51, and to eventually exceed that threshold	Shoreline Stabilizations	Eroded Streambanks	X	X								X								
						Ravine Stabilization	Upstream Watersheds	X	X									X							
						<u>Practices to address Elevated Nitrate Stressor</u>																			
						Saturated Buffers	Riparian Areas	X	X													X			
						Controlled Drainage	Flat topography	X	X													X			
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X												X				
						Constructed Wetlands CP 39	Upstream Watersheds	X	X												X				
						<u>Practices to Address Lack of Habitat Stressor</u>																			
						In Stream BMPs	stretches with no habitat	X	X																
						Stream Bank Stabilization	Eroded Streambanks	X	X																
						Ravine Stabilization	Upstream Watersheds	X	X												X				
						Filter Strips	Watershed Wide	X	X			X									X				
						<u>Practices to Address Elevated Phosphorus Stressor</u>																			
						Tillage BMPs with emphasis on Strip Till	Corn and Soybean Ground	X	X							X			X						
						Side Inlets and Buffers adjacent to inlets	Ditches	X	X							X									
						<u>Practices to Address Lack of Habitat Stressor</u>																			
						In Stream BMPs	Stretches with no habitat	X	X																
						Stream Bank Stabilization	Eroded Streambanks	X	X																
						Ravine Stabilization	Upstream Watersheds	X	X											X					
Filter Strips	Watershed Wide	X	X			X								X											

HUC-10 Subwatershed	Waterbody and Location		Parameter (incl. non-pollutant stressors)	Water Quality		Strategies (see key below)	Estimated Scale of Adoption Needed	Governmental Units with Primary Responsibility									Timeline	Interim 10-yr Milestones						
	Waterbody (ID)	Location and Upstream Influence Counties		Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag								
						<u>Practices to Address Altered Hydrology Stressor</u>																		
						Wetland Restorations	Upstream Watersheds	X	X							X								
						CP-39 Constructed Wetlands	Upstream Watersheds	X	X							X								
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X									X						
						Controlled Drainage	Flat topography	X	X									X						
						<u>Practices to Address Total Suspended Solids Stressor</u>																		
						Filter Strips	Watershed Wide	X	X		X						X							
						Shoreline Stabilizations	Eroded Streambanks	X	X								X							
						Ravine Stabilization	Upstream Watersheds	X	X								X							
						<u>Practices to address Elevated Nitrate Stressor</u>																		
						Saturated Buffers	Riparian Areas	X	X									X						
						Controlled Drainage	Flat topography	X	X									X						
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X								X							
						Constructed Wetlands CP 39	Upstream Watersheds	X	X								X							
						<u>Practices to Address Dissolved Oxygen Stressor</u>																		
						Saturated Buffers	Riparian Areas	X	X									X						
						Filter Strips	Watershed Wide	X	X		X							X						
						Constructed Wetlands CP 39	Upstream Watersheds	X	X								X							
						<u>Practices to Address Elevated Phosphorus Stressor</u>																		
						Tillage BMPs with emphasis on Strip Till	Corn and Soybean Ground	X	X								X		X					

HUC-10 Subwatershed	Waterbody and Location		Parameter (incl. non-pollutant stressors)	Water Quality		Strategies (see key below)	Estimated Scale of Adoption Needed	Governmental Units with Primary Responsibility									Timeline	Interim 10-yr Milestones	
	Waterbody (ID)	Location and Upstream Influence Counties		Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag			
						Side Inlets and Buffers adjacent to inlets	Ditches	X	X						X				
						<u>Practices to Address Lack of Habitat Stressor</u>													
						In Stream BMPs	stretches with no habitat	X	X										
						Stream Bank Stabilization	Eroded Streambanks	X	X										
						Ravine Stabilization	Upstream Watersheds	X	X						X				
						Filter Strips	Watershed Wide	X	X		X				X				
						<u>Practices to Address Altered Hydrology Stressor</u>													

HUC-10 Subwatershed	Waterbody and Location		Parameter (incl. non-pollutant stressors)	Water Quality		Strategies (see key below)	Estimated Scale of Adoption Needed	Governmental Units with Primary Responsibility									Timeline	Interim 10-yr Milestones						
				Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag								
						Wetland Restorations	Upstream Watersheds	X	X								X							
						CP-39 Constructed Wetlands	Upstream Watersheds	X	X								X							
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X										X					
						Controlled Drainage	Flat topography	X	X										X					
						<u>Practices to Address Total Suspended Solids Stressor</u>																		
						Filter Strips	Watershed Wide	X	X		X								X					
						Shoreline Stabilizations	Eroded Streambanks	X	X										X					
						Ravine Stabilization	Upstream Watersheds	X	X										X					
						<u>Practices to address Elevated Nitrate Stressor</u>																		
						Saturated Buffers	Riparian Areas	X	X											X				
						Controlled Drainage	Flat topography	X	X											X				
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X										X					
						Constructed Wetlands CP 39	Upstream Watersheds	X	X										X					
						<u>Practices to Address Dissolved Oxygen Stressor</u>																		
						Saturated Buffers	Stretches with no habitat	X	X											X				
						Filter Strips	Watershed Wide	X	X		X									X				
						Constructed Wetlands CP 39	Upstream Watersheds	X	X										X					
						E. Coli Levels averaged 708 cfu/100ml in sampling years 2010-2011. June Geometric Mean was 727cfu/100mL, July	To reduce geometric means closer to and eventually below the standard of	Filter Strips	Watershed Wide															
					Feedlot Improvements			Corn and Soybean Ground																
		Septic Improvements	Non-Compliant SSTS		X				X															

HUC-10 Subwatershed	Waterbody and Location		Parameter (incl. non-pollutant stressors)	Water Quality		Strategies (see key below)	Estimated Scale of Adoption Needed	Governmental Units with Primary Responsibility									Timeline	Interim 10-yr Milestones					
	Waterbody (ID)	Location and Upstream Influence Counties		Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag							
			Fecal Coliform	Geometric Mean was 612cfu/100mL, and August Geometric Mean was 344 cfu/100mL. Samples exceeded the 1260mpn threshold 2 times out of 17 Samples	126cfu/100ml and to reduce the total number of threshold exceedences within a 2 year sampling period																		
Wolf	Headwaters to Cedar River (510)	Mower	Fecal Coliform	E. Coli Levels averaged 243 cfu/100ml in sampling years 2009-2010. No sample threshold exceedences occurred. Not enough data available to calculate geometric means.	To reduce the average E. coli concentration below the standard of 126cfu/100ml and maintain the number of one time sampling threshold exceedences of 1260cfu/100mL at zero	Filter Strips	Watershed Wide																
						Feedlot Improvements	non-compliant beef and dairy	X	X						X								
						Septic Improvements	non-compliant ssts		X		X												
						<u>Practices to Address Elevated Phosphorus Stressor</u>																	
						Tillage BMPs with emphasis on Strip Till	Corn and Soybean Ground	X	X					X		X							
						Side Inlets and Buffers adjacent to inlets	Ditches	X	X					X									
						<u>Practices to Address Lack of Habitat Stressor</u>																	
						In Stream BMPs	stretches with no habitat	X	X														

HUC-10 Subwatershed	Waterbody and Location		Parameter (incl. non-pollutant stressors)	Water Quality		Strategies (see key below)	Estimated Scale of Adoption Needed	Governmental Units with Primary Responsibility									Timeline	Interim 10-yr Milestones	
	Waterbody (ID)	Location and Upstream Influence Counties		Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag			
						Stream Bank Stabilization	Inlets and Bioreactors	X	X										
						Ravine Stabilization	Upstream Watersheds	X	X							X			
						Filter Strips	Watershed Wide	X	X		X					X			
						<u>Practices to Address Altered Hydrology Stressor</u>													
						Wetland Restorations	Upstream Watersheds	X	X							X			
						CP-39 Constructed Wetlands	Upstream Watersheds	X	X							X			
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X								X		
						Controlled Drainage	Flat topography	X	X								X		
						<u>Practices to Address Turbidity Stressor</u>													
						Filter Strips	Watershed Wide	X	X		X					X			
						Shoreline Stabilizations	Eroded Streambanks	X	X							X			
						Ravine Stabilization	Upstream Watersheds	X	X							X			
						<u>Practices to address Elevated Nitrate Stressor</u>													
						Saturated Buffers	Riparian Areas	X	X								X		
						Controlled Drainage	Flat topography	X	X								X		
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X							X			
						<u>Practices to Address Dissolved Oxygen Stressor</u>		X	X							X			
						Saturated Buffers	Riparian Areas	X	X							X			
						Filter Strips	Watershed Wide	X	X		X					X			
						Constructed Wetlands CP 39	Upstream Watersheds	X	X							X			
						<u>See Stressor Strategies Below</u>													

HUC-10 Subwatershed	Waterbody and Location		Parameter (incl. non-pollutant stressors)	Water Quality		Strategies (see key below)	Estimated Scale of Adoption Needed	Governmental Units with Primary Responsibility									Timeline	Interim 10-yr Milestones			
	Waterbody (ID)	Location and Upstream Influence Counties		Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag					
			F-IBI	F-IBI scored 66 in 2009	To maintain IBI's above the threshold score of 51 and upper confidence interval of 58	<u>Practices to Address Elevated Phosphorus Stressor</u>															
						Tillage BMPs with emphasis on Strip Till	Corn and Soybean Ground	X	X					X		X					
						Side Inlets and Buffers adjacent to inlets	Ditches	X	X					X							
						<u>Practices to Address Lack of Habitat Stressor</u>															
						In Stream BMPs	stretches with no habitat	X	X												
						Stream Bank Stabilization	Eroded Streambanks	X	X												
						Ravine Stabilization	Upstream Watersheds	X	X						X						
						Filter Strips	Watershed Wide	X	X		X					X					
						<u>Practices to Address Altered Hydrology Stressor</u>															
						Wetland Restorations	Upstream Watersheds	X	X							X					
						CP-39 Constructed Wetlands	Upstream Watersheds	X	X							X					
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X									X			
						Controlled Drainage	Flat topography	X	X									X			
						<u>Practices to Address Turbidity Stressor</u>															
						Filter Strips	Watershed Wide	X	X		X					X					
						Shoreline Stabilizations	Eroded Streambanks	X	X							X					
						Ravine Stabilization	Upstream Watersheds	X	X							X					
						<u>Practices to address Elevated Nitrate Stressor</u>															
						Saturated Buffers	Riparian Areas	X	X									X			
						Controlled Drainage	Flat topography	X	X									X			

HUC-10 Subwatershed	Waterbody and Location		Parameter (incl. non-pollutant stressors)	Water Quality		Strategies (see key below)	Estimated Scale of Adoption Needed	Governmental Units with Primary Responsibility									Timeline	Interim 10-yr Milestones	
				Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag			
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X							X			
						Constructed Wetlands CP 39	Upstream Watersheds	X	X							X			
						<u>Practices to Address Dissolved Oxygen Stressor</u>													
						Saturated Buffers	Riparian Areas	X	X								X		
						Filter Strips	Watershed Wide	X	X		X						X		
						Constructed Wetlands CP 39	Upstream Watersheds	X	X								X		
Dobbins	103 R18 S 36 to Eastside Lake (535)	Mower	Turbidity	From 2008-2013 the Average Turbidity Level was 21.24 NTU with 21.6% of samples exceeding the 25 NTU standard out of 74 samples	To keep the 6 year average Turbidity level to below the 25NTU standard, and to reduce the total percentage of threshold exceedences within a 10 year sample period	Filter Strips	Watershed Wide	X	X							X			
						Shoreline Stabilizations	Eroded Streambanks	X	X										
						Ravine Stabilization	Upstream Watersheds	X	X										
						Filter Strips	Watershed Wide	X	X							X			
			Fecal Coliform	E. Coli Levels averaged 172 cfu/100ml in sampling years 2011-2013. Not enough data was collected to develop a geometric mean	To reduce the average concentration of E. Coli below the 126cfu/100mL standard during a 3 year sampling period	Feedlot Improvements	Non-Compliant Dairy and Beef				X					X			
						Septic Improvements	non-compliant ssts		X		X								
						<u>Practices to address Elevated Nitrate Stressor</u>													
						Saturated Buffers	Riparian Areas	X	X								X		

HUC-10 Subwatershed	Waterbody and Location		Parameter (incl. non-pollutant stressors)	Water Quality		Strategies (see key below)	Estimated Scale of Adoption Needed	Governmental Units with Primary Responsibility								Timeline	Interim 10-yr Milestones							
								Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS			Dept of Ag						
						Controlled Drainage	Flat topography	X	X								X							
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X								X							
						Constructed Wetlands CP 39	Upstream Watersheds	X	X								X							
						<u>Practices to Address Lack of Habitat Stressor</u>																		
						In Stream BMPs	stretches with no habitat	X	X															
						Stream Bank Stabilization	Eroded Streambanks	X	X															
						Ravine Stabilization	Upstream Watersheds	X	X									X						
						Filter Strips	Watershed Wide	X	X		X							X						
						<u>Practices to Address Altered Hydrology Stressor</u>																		
						Wetland Restorations	Upstream Watersheds	X	X									X						
						CP-39 Constructed Wetlands	Upstream Watersheds	X	X									X						
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X										X					
						Controlled Drainage	Flat topography	X	X											X				
Rose Creek	Headwaters to Cedar River (522)	Mower	M-IBI	2 of the 3 M-IBI sites exceeded the threshold. 09CD020 scored 27.44	To increase the M-IBI score at 09CD020 closer to and eventually above the threshold of 35.9 and to keep the other two sites above their thresholds	<u>Practices to Address Turbidity Stressor</u>																		
						Filter Strips	Watershed Wide	X	X		X					X								
						Shoreline Stabilizations	Eroded Streambanks	X	X								X							
						Ravine Stabilization	Upstream Watersheds	X	X								X							
			Turbidity	Turbidity levels average 54.26NTU's over 84 samples taken between 2008 and 2013	To drop the average turbidity closer to and eventually below the 25NTU Standard	Filter Strips	Watershed Wide																	
						Feedlot Improvements	Non-Compliant Dairy and Beef																	
						Septic Improvements	non-complaint ISTS																	

HUC-10 Subwatershed	Waterbody and Location		Parameter (incl. non-pollutant stressors)	Water Quality		Strategies (see key below)	Estimated Scale of Adoption Needed	Governmental Units with Primary Responsibility								Timeline	Interim 10-yr Milestones									
	Waterbody (ID)	Location and Upstream Influence Counties		Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS			Dept of Ag								
						<u>Practices to Address Lack of Habitat Stressor</u>																				
						In Stream BMPs	stretches with no habitat	X	X																	
						Stream Bank Stabilization	Eroded Streambanks	X	X																	
						Ravine Stabilization	Upstream Watersheds	X	X								X									
						Filter Strips	Watershed Wide	X	X		X						X									
						<u>Practices to Address Altered Hydrology Stressor</u>																				
						Wetland Restorations	Upstream Watersheds	X	X								X									
						CP-39 Constructed Wetlands	Upstream Watersheds	X	X								X									
			Incentives for Alternative Drainage	Inlets and Bioreactors	X	X										X										
			Controlled Drainage	Flat topography	X	X										X										
									<u>Practices to Address Lack of Habitat Stressor</u>																	
									In Stream BMPs	stretches with no habitat	X	X														
									Stream Bank Stabilization	Eroded Streambanks	X	X														
									Ravine Stabilization	Upstream Watersheds	X	X								X						
									Filter Strips	Watershed Wide	X	X		X						X						
									<u>Practices to Address Altered Hydrology Stressor</u>																	
Wetland Restorations	Upstream Watersheds	X							X								X									
CP-39 Constructed Wetlands	Upstream Watersheds	X							X								X									
Incentives for Alternative Drainage	Inlets and Bioreactors	X	X										X													
Controlled Drainage	Flat topography	X	X										X													
			E. Coli Concentration	Do decrease the average E.Coli concentration	Filter Strips	Watershed Wide	X	X							X											

HUC-10 Subwatershed	Waterbody and Location		Parameter (incl. non-pollutant stressors)	Water Quality		Strategies (see key below)	Estimated Scale of Adoption Needed	Governmental Units with Primary Responsibility									Timeline	Interim 10-yr Milestones	
				Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag			
Orchard Creek	101 18 W North Line to Cedar River (539)	Mower + Freeborn	Fecal Coliform	averaged 579 CFU/100mL during 6 samples in 2009-2010. Standard exceedences happened in 2 of 6 samples	below the 126CFU/100mL standard and to reduce the amount of 1260CFU/100mL standard exceedences to zero.	Feedlot Improvements	Non-Compliant Dairy and Beef		X		X								
						Septic Improvements	Non-Compliant ISTS		X		X								

HUC-10 Subwatershed	Waterbody and Location		Parameter (incl. non-pollutant stressors)	Water Quality		Strategies (see key below)	Estimated Scale of Adoption Needed	Governmental Units with Primary Responsibility									Timeline	Interim 10-yr Milestones							
	Waterbody (ID)	Location and Upstream Influence Counties		Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag									
Little Cedar River	Headwaters to MN Border (518)	Mower	E-Coli	Sample averages and geometric means exceeded 126 CFU/100mL Standard between 2008 and 2009. Average concentration over 15 samples is 947 CFU/100mL. June Geometric Mean is 717 CFU/100ml, July Geometric Mean was 863 CFU/100ML and August Geometric Mean was 463 CFU/100mL	Do decrease average sample concentrations and geometric means below the 126CFU/100mL water quality standard'	Filter Strips	Watershed Wide	X	X		X														
						Feedlot Improvements	Non-Compliant Dairy and Beef			X		X					X								
						Septic Improvements	Non-Compliant ISTS			X		X													
						<u>Practices to address Elevated Nitrate Stressor</u>																			
						Saturated Buffers	Riparian Areas	X	X								X								
						Controlled Drainage	Flat topography	X	X								X								
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X							X									
						Constructed Wetlands CP 39	Upstream Watersheds	X	X							X									
						<u>Practices to Address Lack of Habitat Stressor</u>																			
						In Stream BMPs	stretches with no habitat	X	X																
						Stream Bank Stabilization	Eroded Streambanks	X	X																
Ravine Stabilization	Upstream Watersheds	X	X							X															
Filter Strips	Watershed Wide	X	X			X				X															

HUC-10 Subwatershed	Waterbody and Location		Parameter (incl. non-pollutant stressors)	Water Quality		Strategies (see key below)	Estimated Scale of Adoption Needed	Governmental Units with Primary Responsibility									Timeline	Interim 10-yr Milestones					
	Waterbody (ID)	Location and Upstream Influence Counties		Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag							
						<u>Practices to Address Altered Hydrology Stressor</u>																	
						Wetland Restorations	Upstream Watersheds	X	X							X							
						CP-39 Constructed Wetlands	Upstream Watersheds	X	X							X							
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X									X					
						Controlled Drainage	Flat topography	X	X									X					
						<u>Practices to Address Turbidity Stressor</u>																	
						Filter Strips	Watershed Wide	X	X		X						X						
						Shoreline Stabilizations	Eroded Streambanks	X	X								X						
Ravine Stabilization		X	X								X												
						<u>Practices to address Elevated Nitrate Stressor</u>																	
						Saturated Buffers	Riparian Areas	X	X								X						
						Controlled Drainage	Flat topography	X	X								X						
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X							X							
						Constructed Wetlands CP 39	Upstream Watersheds	X	X							X							
						<u>Practices to Address Turbidity Stressor</u>																	
						Filter Strips	Watershed Wide	X	X		X						X						
						Shoreline Stabilizations	Eroded Streambanks	X	X								X						
Ravine Stabilization	Upstream Watersheds	X	X								X												
						<u>Practices to Address Elevated Phosphorus Stressor</u>																	

HUC-10 Subwatershed	Waterbody and Location		Parameter (incl. non-pollutant stressors)	Water Quality		Strategies (see key below)	Estimated Scale of Adoption Needed	Governmental Units with Primary Responsibility									Timeline	Interim 10-yr Milestones					
	Waterbody (ID)	Location and Upstream Influence Counties		Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag							
						Tillage BMPs with emphasis on Strip Till	Corn and Soybean Ground	X	X						X		X						
						Side Inlets and Buffers adjacent to inlets	Ditches	X	X						X								
						<u>Practices to Address Lack of Habitat Stressor</u>																	
						In Stream BMPs	stretches with no habitat	X	X														
						Stream Bank Stabilization	Eroded Streambanks	X	X														
						Ravine Stabilization	Upstream Watersheds	X	X								X						
						Filter Strips	Watershed Wide	X	X		X						X						
						<u>Practices to Address Elevated Phosphorus Stressor</u>																	
						Tillage BMPs with emphasis on Strip Till	Corn and Soybean Ground	X	X						X		X						
						Side Inlets and Buffers adjacent to inlets	Ditches	X	X						X								
						<u>Practices to Address Lack of Habitat Stressor</u>																	
						In Stream BMPs	stretches with no habitat	X	X														
						Stream Bank Stabilization	Eroded Streambanks	X	X														
						Ravine Stabilization	Upstream Watersheds	X	X								X						
						Filter Strips	Watershed Wide	X	X		X						X						
						<u>Practices to Address Altered Hydrology Stressor</u>																	
						Wetland Restorations	Upstream Watersheds	X	X								X						
						CP-39 Constructed Wetlands	Upstream Watersheds	X	X								X						
Incentives for Alternative Drainage	Inlets and Bioreactors	X	X									X											
Controlled Drainage	Flat topography	X	X										X										

HUC-10 Subwatershed	Waterbody and Location		Parameter (incl. non-pollutant stressors)	Water Quality		Strategies (see key below)	Estimated Scale of Adoption Needed	Governmental Units with Primary Responsibility									Timeline	Interim 10-yr Milestones						
	Waterbody (ID)	Location and Upstream Influence Counties		Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag								
						<u>Practices to Address Turbidity Stressor</u>																		
						Filter Strips	Watershed Wide	X	X		X					X								
						Shoreline Stabilizations	Eroded Streambanks	X	X								X							
						Ravine Stabilization	Upstream Watersheds	X	X								X							
						<u>Practices to address Elevated Nitrate Stressor</u>																		
						Saturated Buffers	Riparian Areas	X	X									X						
						Controlled Drainage	Flat topography	X	X									X						
						Incentives for Alternative Drainage	Inlets and Bioreactors	X	X									X						
						Constructed Wetlands CP 39	Upstream Watersheds	X	X									X						
						<u>Practices to Address Dissolved Oxygen Stressor</u>																		
						Saturated Buffers	Riparian Areas	X	X									X						
						Filter Strips	Watershed Wide	X	X				X					X						
						Constructed Wetlands CP 39	Upstream Watersheds	X	X									X						
Woodbury Creek	Headwaters to Cedar River (526)	Mower + Freeborn	Fecal Coliform	E. Coli concentrations averaged 746 CFU/100ml over 6 samples in 2009-2010. Not enough data existed to compute geometric means	To bring E.Coli Concentrations down closer to the 126CFU/100mL threshold, and eventually below the threshold	Filter Strips	Watershed Wide	X	X							X	X							
						Feedlot Improvements	Non-Compliant Dairy and Beef		X															
						Septic Improvements	Non-Compliant ISTS		X		X													
Otter Creek	Headwaters to MN Border (517)	Mower	Fecal Coliform	The average is 977 Colonies/100mL among 33 samples taken between 2000-2001	To bring E. Coli levels down below the 126 cfu/100mL water quality standard	Filter Strips	2																	
						Feedlot Improvements	Non-Compliant Dairy and Beef																	
						Septic Improvements	Non-Compliant ISTS																	

HUC-10 Subwatershed	Waterbody and Location		Parameter (incl. non-pollutant stressors)	Water Quality		Strategies (see key below)	Estimated Scale of Adoption Needed	Governmental Units with Primary Responsibility									Timeline	Interim 10-yr Milestones		
				Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag				
						Filter Strips	Watershed Wide	X	X							X				
						Shoreline Stabilizations	Eroded Streambanks	X	X											
						Ravine Stabilization	Eroded Streambanks	X	X											
						Filter Strips	watershed wide	X	X					X						
			Fecal Coliform	The average of 14 E. Coli samples taken between 2009-2010 was 419 CFU/100mL. The Geometric Mean in June was 316 CFU/100mL, The Geometric Mean in July was 184 CFU/100mL, and the Geometric Mean in August was 141 CFU/100mL	To decrease the two-year average and geometric means to below the 126cfu/100mL standard	Feedlot Improvements	non-compliant dairy and beef		X		X									
						Septic Improvements	non-compliant ISTS		X		X									
						<u>Practices to address Elevated Nitrate Stressor</u>														
						Saturated Buffers	riparian	X	X								X			
						Controlled Drainage	flat topography	X	X								X			
						Incentives for Alternative Drainage	inlets and bioreactors	X	X						X					
						Constructed Wetlands CP 39	upstream watersheds	X	X						X					
						<u>Practices to Address Elevated Phosphorus Stressor</u>														
						Tillage BMPs with emphasis on Strip Till	corn and soybean	X	X					X		X				

HUC-10 Subwatershed	Waterbody and Location		Parameter (incl. non-pollutant stressors)	Water Quality		Strategies (see key below)	Estimated Scale of Adoption Needed	Governmental Units with Primary Responsibility								Timeline	Interim 10-yr Milestones	
				Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS			Dept of Ag
						Side Inlets and Buffers adjacent to inlets	ditches	X	X						X			
						<u>Practices to Address Lack of Habitat Stressor</u>												
						In Stream BMPs	stretches with no habitat	X	X									
						Stream Bank Stabilization	eroded banks	X	X									
						Ravine Stabilization	upstream watersheds	X	X							X		
						Filter Strips	watershed wide	X	X		X					X		
						<u>Practices to Address Altered Hydrology Stressor</u>												
						Wetland Restorations	upstream watersheds	X	X							X		
						CP-39 Constructed Wetlands	upstream watersheds	X	X							X		
						Incentives for Alternative Drainage	inlets and bioreactors	X	X								X	
						Controlled Drainage	flat topography	X	X								X	
						<u>Practices to Address Turbidity Stressor</u>												
						Filter Strips	watershed wide	X	X		X					X		
						Shoreline Stabilizations	eroded banks	X	X							X		
						Ravine Stabilization	upstream watersheds	X	X							X		
						<u>Practices to Address Dissolved Oxygen Stressor</u>												
						Saturated Buffers	riparian	X	X							X		
						Filter Strips	watershed wide	X	X		X					X		
						Constructed Wetlands CP 39	upstream watersheds	X	X							X		
						<u>Practices to Address Turbidity/ Total Suspended Solids Stressor</u>												
						Filter Strips	watershed wide	X	X		X					X		

HUC-10 Subwatershed	Waterbody and Location		Parameter (incl. non-pollutant stressors)	Water Quality		Strategies (see key below)	Estimated Scale of Adoption Needed	Governmental Units with Primary Responsibility									Timeline	Interim 10-yr Milestones						
	Waterbody (ID)	Location and Upstream Influence Counties		Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag								
						Shoreline Stabilizations	eroded banks	X	X							X								
						Ravine Stabilization	upstream watersheds	X	X							X								
						<u>Practices to address Elevated Nitrate Stressor</u>																		
						Saturated Buffers	riparian	X	X									X						
						Controlled Drainage	flat topography	X	X									X						
						Incentives for Alternative Drainage	inlets and bioreactors	X	X									X						
						Constructed Wetlands CP 39	upstream watersheds	X	X									X						
						<u>Practices to Address Elevated Phosphorus Stressor</u>																		
						Tillage BMPs with emphasis on Strip Till	corn and soybean	X	X							X			X					
						Side Inlets and Buffers adjacent to inlets	ditches	X	X							X								
						<u>Practices to Address Lack of Habitat Stressor</u>																		
						In Stream BMPs	riparian	X	X															
						Stream Bank Stabilization	eroded banks	X	X															
						Ravine Stabilization	upstream watersheds	X	X									X						
						Filter Strips	watershed wide	X	X				X					X						
						<u>Practices to Address Altered Hydrology Stressor</u>																		
						Wetland Restorations	upstream watersheds	X	X									X						
						CP-39 Constructed Wetlands	upstream watersheds	X	X									X						
						Incentives for Alternative Drainage	inlets and bioreactors	X	X										X					
						Controlled Drainage	flat topography	X	X										X					

HUC-10 Subwatershed	Waterbody and Location		Parameter (incl. non-pollutant stressors)	Water Quality		Strategies (see key below)	Estimated Scale of Adoption Needed	Governmental Units with Primary Responsibility									Timeline	Interim 10-yr Milestones						
	Waterbody (ID)	Location and Upstream Influence Counties		Current Conditions	Goals / Targets			Watershed District	SWCD	MPCA	County	DNR	Cities	City of Austin	NRCS	Dept of Ag								
						<u>Practices to Address Turbidity Stressor</u>																		
						Filter Strips	watershed wide	X	X		X					X								
						Shoreline Stabilizations	eroded banks	X	X							X								
						Ravine Stabilization	upstream watersheds	X	X							X								
						<u>Practices to Address Dissolved Oxygen Stressor</u>																		
						Saturated Buffers	riparian	X	X								X							
						Filter Strips	watershed wide	X	X		X					X								
						Constructed Wetlands CP 39	upstream watersheds	X	X								X							
						<u>Practices to Address Turbidity/ Total Suspended Solids Stressor</u>																		
						Filter Strips	watershed wide	X	X		X						X							
						Shoreline Stabilizations	eroded banks	X	X								X							
						Ravine Stabilization	upstream watersheds	X	X								X							
Unnamed Creek	Unnamed Creek to Turtle Creek (547)	Freeborn	M-IBI	M-IBI scored 35.16 in 2009	To increase the M-IBI above and beyond the threshold of 35.9	<u>Practices to Address Altered Hydrology Stressor</u>																		
						Wetland Restorations	upstream watersheds	X	X						X									
						CP-39 Constructed Wetlands	upstream watersheds	X	X							X								
						Incentives for Alternative Drainage	inlets and bioreactors	X	X									X						
						Controlled Drainage	flat topography	X	X								X							