Table MS-3 Action Item Summary by Subwatershed: Main Stem

12-digit HUC/ Water Body	Dams	CSOs	Contamin. Sites	Sed	Nutrients	GW contam	Flooding	Habitat	Recreation	Category/Practices	Target amount by 2023	Units	Cost	Sed. (tons/ yr)	N (lb/ yr)	P (lb/ yr)
041100020305																
Main Stem & tribs										**Dam Removal**						
Main Stem	√			√	√			√		Remove low-head dams - CF lead	2	Dams	1 million			
Main Stem	√			√	√			√		Remove Gorge dam - lead by Ohio EPA	1	Dams				
										CSO Containment/Diversion						
Main Stem watershed - Gorge		√								Containment	105/yr reduced by 2028	overflows reduced per yr (4 sites)				
										Contamination						
Main stem watershed			√							Determine status of DERR listed sites	9	sites				
Main stem watershed			√							Brownfields inventory	1					
Main stem			√			√				Initiate cleanup	2					
										Riparian Restoration						
Kelsey Cr., incised tribs Stow, MF, CF,				√	√		√	√		Restore Streambank (Bio-Engineering/ re-contouring/ re-grading)	8,000	Linear Feet	$25-200/lf	490	686	264
Lg properties schools, golf courses, dam pools, public				√	√		√	√		Plant Native plants, trees, or shrubs in Riparian Areas	25	Acres		11	150	20
Watershed, lakes								√		Remove/treat Invasive Species	50	Acres				
										Stream Restoration						
Kelsey Cr., other tribs				√	√		√	√		Restore Flood Plain	8	Acre-foot		3.5	50	7

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Kelsey Cr., other tribs				√	√		√	√	√	Restore Channel	4,000	Linear Feet	$100-200/lf			
Main Stem watershed	√				√			√		dam removal feasibility study	1					
										Wetland Restoration						
Main stem watershed				√	√		√	√		Reconstruct, Restore, Reconnect Wetlands	10	Acres	$5k-100k/ac.	10	280	62
										Urban runoff and green infrastructure						
MS watershed				√	√		√			Rain gardens - residential/ parks	20,000	sq feet	$500,000		2.00	0.50
MS watershed		√		√	√		√			Bioinfiltration/ permeable pavement - parking lot retrofit	10,000	sq feet	$200,000		2	0.4
MS watershed				√	√		√			Storm water inventory	1	inventory				
MS watershed				√	√					Storm water retrofits - assume 1/2 wetland, 1/2 wq inlet+sand filter	100	acres treated	$400-17k/ ac	4.5	70.1	10
MS watershed				√	√					Retrofit drainage - No-mow ditch/ grassed swale/ daylighting	1,000	linear feet - treats 4 ac		0.1	0.8	0.4
Middle Cuyahoga River watershed		√		√	√		√			Neighborhood-scale green infrastructure	1		$25-50k design $20k bumpouts	5	200	25
										Conservation Easements						
See Fig. MS3				√	√		√	√	√	Acquire Wetlands/ easements	25	Acres	$5-25k/ac	prevent 25	prevent 1,400	prevent 316
MS watershed	√	√	√	√	√	√	√	√	√	**Education and Outreach**						
										Develop Brochures/Fact Sheets	6	Brochures/ Fact Sheets				
										Watershed Festivals	10	Festivals				
										Websites	1	Website				
										Install Signs	10	Signs	$200-500/ sign			

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										Stream Clean-Ups	15	Clean-Ups				
										New lake/stream stewardship groups	1	new group active				
										Golf course certification outreach	4	golf courses contacted				
										Stencil Storm Drains	100					
										Conduct Workshops/ Training sessions	5	Workshops				
										Develop Manual(s)	1	Manuals				
										Rain barrel workshops	50	rain barrels				
										Develop Newsletters	10	Newsletters				
										Outreach for dams	2	Press Releases				
										Local Policy						
				√	√		√	√		Green code audit/update Develop or Customize	2	audits/ updates				
										Monitoring						
		√							√	Bacteria sampling	6	Samples				
					√			√		Chemical Sampling	3	Sites				
				√	√			√		Macroinv./Fish/QHEI Sampling	4	Sites				
										Recreation						
									√	Develop water traill	1	water trail				
									√	Construct/improve access sites - incl. 3 access sites Cuy Falls	5	site				
									√	Boardwalk/trail	8,000	lf				
									√	Economic benefit study	1	study				
									√	Develop quest(s)/ virtual watershed tour	2 quests/ 1 tour					
													Total	674	1871	518

* Contingent on Long Term Control Plan, assumes reduce all but 3 overflows/yr at each of 4 locations.