Implementation Plan for Five TMDLs for Bacteria in Four Austin Streams

Table 1. Management Measures in a Nutshell

	AS Coordination Committee proposes five categories of so	ution	ns to re	duce bacterial levels, organized around how they will	
reduce pollution. 1.0 Riparian Zone Restoration		4.0 Resident Outreach			
Instream bacteria concentrations are reduced when stormwater runoff filters through natural riparian buffers (vegetated areas along the creek's edge) before entering the stream. Restoring and enhancing riparian buffers along Austin-area streams is a primary strategy for the four creeks			The I-Plan focuses on education of residents, whose actions are essential to reduce bacteria in the creeks. Educational efforts will be through:4.1Austin Neighborhoods Council ⁶		
	I-Plan and citywide.	-	4.2	Austin Environmental Board ⁷	
	Grow Zone initiative ¹				
1.2	Recruit adopters for all creeks and parks in the watersheds ²		4.3	Homeless survival guides ¹	
1.3	Use volunteers to help expand Grow Zone riparian initiative ²		4.4	Earth Camp and other AISD campus outreach ¹	
1.4	Increase riparian buffer zone width for new development ¹		4.5	Austin Parks Foundation & Keep Austin Beautiful ²	
1.5	Increase waterway setbacks in Walnut Creek ³	_	4.6	Community communication ⁸	
2014			4.7	People Organized in Defense of Earth and Her Resources ⁹	
2.0 Wastewater Infrastructure The I-Plan focuses on means to reduce sewage contamination of creeks through the following means:			5.0 Stormwater Treatment		
2.1	Require failing OSSFs to connect to City sewer lines, and provide incentives for connection when new mains are installed ¹	Most fecal material enters the streams through stormwater runoff. Nonstructural and structural BMPs will be important to reducing bacteria in the creeks.			
2.2	Provide incentives in Walnut Creek area for OSSF repair and improvements ³		5.1	Install or retrofit water quality structural controls on public lands ¹	
2.3/ 2.4	Inspect & repair sewer lines ^{1,4}		5.2	Inspect existing city-owned and commercial water quality controls, and repair problems as feasible ¹	
2.5/ 2.6	Respond to sewer overflows ^{1,4}		5.3	Inspect and ensure proper operation of private water quality treatment and flood detention structures in Travis County jurisdiction ³	
2.7	Reduce contamination from private sewage laterals through inspection when overflows occur, ensuring repair when needed ¹		5.4/ 5.5	Dry-weather inspection of storm drain outfalls to identify illicit connections ^{1,4}	
2.8	Design & construct outdoor public toilets in high-use locations in Waller Creek: pilot program ¹		5.6	Pilot program test new roadway bacteria reduction technology ³	
			5.7	Street sweeping on University of Texas-Austin campus ⁴	
3.0 Domestic Pet Waste			5.8	Construction site inspection & monitoring ¹	
Pet waste contributes significantly to stream contamination. Education is a central focus of the I-Plan efforts, as is installing Mutt Mitts.			5.9	Inspect commercial and industrial facilities for illicit discharges ³	
3.1	Educate park users through signs and citywide "Scoop the Poop" efforts, enforce requirements in parks to remove pet waste ¹		Responsible Organization1 City of Austin2 Austin Parks Foundation, Keep Austin Beautiful		
3.2	Install pet waste bags dispensers in all City parks in watersheds ¹		3 Travis County4 University of Texas at Austin		
3.3	Place educational kiosks in Walnut Creek Park off- leash area ^{5, 1}	5 Friends of Austin Dog Parks6 Austin Neighborhoods Council			
3.4	Educate pet-care businesses about pet waste management, seek their cooperation to distribute educational materials to their customers ^{10, 11}	 7 City of Austin Environmental Board 8 Shoal Creek Conservancy/ Pease Park Conservancy 9 People in Defense of Earth and Her Resources 10 Sierra Club, Austin Chapter 11 Austin Chamber of Commerce 			