

TMDL Implementation Tracking Matrix: Millersburg, Oregon STATUS UPDATED FOR 2019-2024, Rev. 2022

Millersburg has legal authority over land use on 2,850 acres within the City Limits. The Willamette River forms the western boundary of the City between river-mile 115.5 and 117.75 for approximately 2.25 miles. The City is implementing its MS4 Phase 2 Permit throughout its entire jurisdiction in order to also meet the NPS load allocations (LA) for the Mercury TMDL.

POLLUTANT <i>Pollutants Addressed by the TMDL.</i>	POLLUTANT SOURCES	STRATEGY <i>What Millersburg is doing and will do to reduce pollution from this source.</i>	ACTIONS <i>Specific Implementation Measures.</i>	BENCHMARKS <i>Intermediate indicators of progress.</i>	TIMELINE <i>Beginning and completion dates.</i>	MEASURE <i>Demonstrate implementation or completion of the strategy.</i>	PROGRAM FUNDING	STATUS
1.0 TEMPERATURE	A. Solar Radiation	Maintain existing riparian plantings and shading vegetation.	Update Land Use Development Code to include more provisions for riparian vegetation protection, including greater setbacks for drainage ways. Code enforcement of riparian and vegetative protections. When doing drainage way maintenance/brush removal activities, remove only obstructions to the flow. Protect trees and larger vegetation outside the active channel which provide shading and grass/vegetation within the channel which does not obstruct flow.	Compare aerial photographs at periodic intervals to determine the state of and changes to riparian areas. Visually inspect Crooks Creek main channel and its two northern tributaries within City limits.	Continue to enforce City's current Development Code (1984 & 2006) until revised code is adopted; ongoing Current code revision is underway with adoption anticipated in 2019. Begin enforcement upon adoption of new code. Visual inspection of Crooks Creek and tributaries annually. Aerial photo analysis annually or as new open source aerial photos become available.	Yearly review of standards compliance. Report on visual inspection of Crooks Creek and tributaries. Annual progress of code revision.	General Fund/ Stormwater Fund	
		Perform public outreach and education on riparian regulations and the benefits of riparian plantings and shading vegetation on private property.	Public outreach and education through posting materials to City website and/or fliers on benefits of riparian plantings and shading. Provide guidance to private property owners when requested.	Distribute or post outreach materials minimum of once per year.	Years 1-5: Outreach materials reviewed annually and updated if needed. Years 1-5: Maintain up-to-date website Years 1-5: Perform a minimum of one outreach event and one flyer/ mailing each year.	Track and document outreach and education events, mailings, postings and other efforts; annual review.	General Fund/ Stormwater Fund	
		Maintain existing shading vegetation in riparian areas on City-owned property.	Monitor health of existing vegetation in riparian areas on City-owned property.	Visually inspect trees annually. Engage arborist if conditions of concern exist.	Visual inspection by City staff annually. Evaluation by arborist as needed, minimum every 5 years.	Report on annual visual inspection and arborist evaluation, as applicable. Report on implementation of arborist recommendations.	General Fund/ Stormwater Fund	
	B. Impervious Surface Runoff	Minimize new paving and roof areas, as practicable to reduce stormwater temperature increases.	Enforce maximum ground coverage standards per Land Use Development Code Zones and Zoning Regulations.	Monitor subdivision and building site plans. Track approved variances	Ongoing; annual review	Track and document compliance review of new development, approved variances, violations and enforcement actions.	General Fund/ Planning and Development	
	C. Industrial Storm Water Discharges	Ensure regulations for industrial storm water are communicated to new industries.	Inform applicants of 1200-Z and 1200-C permit requirements and direct them to contact DEQ. Notify DEQ of any reported complaints regarding industrial stormwater discharges.	Track notification to new applicants. Track any notifications to DEQ.	Ongoing; annual review.	Yearly review of compliance in notifying new applicants of 1200-C and 1200-Z requirements. Report any complaint notifications to DEQ	General Fund/ Planning and Development	

2.0 BACTERIA	A. Septic Systems (approximately 4% of the City's dwellings are on individual septic systems)	Contact Linn County Environmental Health about reported concerns with existing septic systems. Ensure system conversion to municipal sewer system is required for new or redevelopment per the Development Code.	Continue expansion of municipal sewer system to serve all areas of the City. Enforce septic system conversion to municipal sewer system when required by Development Code.	Monitor septic system conversion to municipal sewer system & document sewer system extensions	Ongoing; annual review	Report number of septic systems converted to municipal sewer system each year. Report expansions to municipal sewer system Track complaints/ concerns City reports to Linn County	Sewer Fund	
	B. Pet and animal waste	Continue to supply pet waste pickup stations. Enforce farm animal regulations.	City is providing waste collection stations at City Parks. Code enforcement of farm animal raising.	Monitor usage of waste collection stations and farm animal compliance with City Code.	Ongoing; annual review	Track approximate costs of maintaining and restocking dog waste stations. Track responses to complaints regarding animal waste, violations and follow-up actions	General Fund/ Parks	
	C. Garbage spills	Encourage waste collection companies to cover waste bins during transit. Encourage adopt-a-road program within the City.	Enforce current traffic code requiring covered loads. Encourage and support adopt-a-road program by posting information on how to get started to the City web site and referring interested groups to Linn County for county roads. Provide supplies and equipment to adopt-a-road groups.	Monitor roadside debris accumulations through use of maintenance weekly checklists. Track number and type of supplies (bags, gloves) and equipment (vests, trash pick up tools) provided to adopt-a-road groups.	Ongoing; annual review	Provide example maintenance checklists annually. Report on roadside debris observed and removed and any enforcement actions. Report on roads adopted and supplies provided by City, including costs, to adopt-a-road groups.	Streets Fund	
3.0 MERCURY	A. Erosion and sedimentation containing mercury from existing background sources and introduced deposits from air and industries.	Strategy: Pollution Prevention and Good Housekeeping for Municipal Operations	Actions: Reduce discharge of mercury-related pollutants, such as sediment, through the stormwater conveyance system. Conduct municipal operation and maintenance activities in a manner that reduces the discharge of pollutants to protect water quality.	Benchmarks: See Phase 2 MS4 General Permit, Schedule A.3.f.	Timeline: See Phase 2 MS4 General Permit, Schedule A.3.f.i	Measure: See Phase 2 MS4 General Permit Schedule A.3.f	Funding: General Fund/ Stormwater Fund	
		Public Education and Outreach	Conduct ongoing education and outreach program to inform the public about the impacts of stormwater discharges on waterbodies and steps they can take to reduce mercury-related pollutants in stormwater runoff.	See Phase 2 MS4 General Permit, Schedule A.3.a	See Phase 2 MS4 General Permit, Schedule A.3.a.i	See Phase 2 MS4 General Permit, Schedule A.3.a	Funding: General Fund/ Stormwater Fund	
		Public Involvement and Participation	Implement public involvement and participation program that provides opportunities for the public to effectively participate in the development of stormwater control measures.	See Phase 2 MS4 General Permit, Schedule A.3.b	See Phase 2 MS4 General Permit, Schedule A.3.b.i	See Phase 2 MS4 General Permit, Schedule A.3.b	Funding: General Fund/ Stormwater Fund	
		Illicit Discharge Detection and Elimination	Implement and enforce a program to detect and eliminate illicit discharges into the stormwater conveyance system.	See Phase 2 MS4 General Permit, Schedule A.3.c	See Phase 2 MS4 General Permit, Schedule A.3.c.i	See Phase 2 MS4 General Permit, Schedule A.3.c	Funding: General Fund/ Stormwater Fund	

			Refer Projects to DEQ to obtain NPDES 1200-C permit for construction projects that disturb one or more acres (or that disturb less than one acre if it is part of a "common plan of development or sale" disturbing one or more acres).	See Phase 2 MS4 General Permit, Schedule A.3.d.iii	See Phase 2 MS4 General Permit, Schedule A.3.d.i	See Phase 2 MS4 General Permit, Schedule A.3.d.iii	Funding: General Fund/ Stormwater Fund	
			Require construction site operators to complete and implement an Erosion and Sediment Control Plan for construction sites that disturb 10,000 square feet or more and are not already covered by a 1200-C permit	See Phase 2 MS4 General Permit, Schedule A.3.d.iv	See Phase 2 MS4 General Permit, Schedule A.3.d.i	See Phase 2 MS4 General Permit, Schedule A.3.d.iv	Funding: General Fund/ Stormwater Fund	
		Construction Site Runoff Control	Require erosion controls, sediment controls, and waste materials management controls to be used and maintained at all qualifying construction projects from initial clearing through final stabilization.	See Phase 2 MS4 General Permit, Schedule A.3.d.ii	See Phase 2 MS4 General Permit, Schedule A.3.d.i	See Phase 2 MS4 General Permit, Schedule A.3.d.ii	Funding: General Fund/ Stormwater Fund	
			Develop, implement, and maintain a written escalating enforcement and response procedure.	See Phase 2 MS4 General Permit, Schedule A.3.d.vii	See Phase 2 MS4 General Permit, Schedule A.3.d.i	See Phase 2 MS4 General Permit, Schedule A.3.d.vii	Funding: General Fund/ Stormwater Fund	
			Track implementation of construction site runoff program required activities.	See Phase 2 MS4 General Permit, Schedule A.3.d.ix	See Phase 2 MS4 General Permit, Schedule A.3.d.i	See Phase 2 MS4 General Permit, Schedule A.3.d.ix	Funding: General Fund/ Stormwater Fund	
		Post-Construction Site Runoff for New Development and Redevelopment	Develop, implement, and enforce a program to reduce discharges of pollutants and control post-construction stormwater runoff from new development and redevelopment project sites.	See Phase 2 MS4 General Permit, Schedule A.3.e	See Phase 2 MS4 General Permit, Schedule A.3.e.i	See Phase 2 MS4 General Permit, Schedule A.3.e	Funding: General Fund/ Stormwater Fund	
4.0 INTERRELATED FACTORS	A. Stormwater Discharge, a contributing source factor for all three Identified Pollutants.	Provide stormwater detention and treatment.	Enforce existing regulations & perform regular maintenance inspections of existing public facilities. Complete and adopt engineering standards, including post-construction stormwater detention and water quality.	Monitor effectiveness of existing regulations and maintenance program. Include design standards which require stormwater treatment in addition to detention.	Ongoing enforcement of existing standards Adoption of post-construction stormwater quality engineering standards by end of 2019. Include requirement for maintenance agreements of private SW facilities in engineering standards.	Maintain records of stormwater calculations and reports in development files. Track maintenance of facilities Provide documentation that post construction stormwater quality engineering design standards are in the process of or have been adopted.	General Fund/ Stormwater Fund	
		Adopt the Millersburg Stormwater Master Plan and begin implementation of selected capital projects.	Begin implementation of selected capital projects recommended in the Stormwater Master Plan.	Incorporate stormwater projects into the City's Capital Improvements Program	Master Plan adopted in 2018. Plan and budget for projects beginning in FY 2019-2020.	Implementation of selected projects.	General Fund/ Stormwater Fund	

	B. Disposal & Recycling	Prevent hazardous waste & illegal discharges and encourage recycling.	Work with waste disposal provider (Republic Services) to provide information to the public on disposal regulations and recycling. Support Hazardous Waste collection days. Advertise on City reader board and website.	Regular review of agreement with Republic Services to insure services continue to meet the needs of the community.	Periodic and on-going. Franchise agreement is reviewed every five years, evaluation of services annually.	Maintain record of any reported illegal discharges and enforcement actions. Report on Actions.	General Fund	
		Illicit Discharge, Detection and Elimination	Monitor ditches during dry weather. Dry weather screening - inspect 20% of outfalls annually. Provide reporting/complaint information on City website, including phone number and complaint form.	Track dry weather ditch monitoring and dry weather outfall screening.	Year 1: Establish dry weather screening program. Provide complaint reporting information on website. Year 2: Begin dry weather monitoring/screening, continue ongoing.	Provide maintenance checklists documenting ditch monitoring. Report on dry weather outfall screening. Track responses to complaints.	General Fund/ Stormwater Fund	
	C. Information Program for Clean Water Act and potential pollutants	Implement outreach and education activities for new local industries and the general public.	Post information or links to City website. Educate new industries about protection of stormwater.	Develop a stormwater flyer for general public, post to website, and make available at City Hall. Develop a stormwater flyer for industry and give to new industries at time of permits.	Develop stormwater flyers and post by 12/31/2019.	Annual communication of information to public and report to council. Provide flyers with annual report.	General Fund/ Stormwater Fund	
	D. Funding	Provide funding for planning and implementation of needed programs to address pollution.	Seek funding sources, including considering creation of a stormwater utility and fee.	Prepare a working list of potential funding sources.	Ongoing; annual review	Achieve funding to implement planning and implementation of needed programs	General Fund/ Stormwater Fund	
	E. Intergovernmental Cooperation	Achieve economies and expanded informational base through cooperative associations.	Contact local and statewide organizations addressing environmental issues. Expand participation in Oregon ACWA.	Attend stormwater information sharing events. Participate with other agencies in local collaboration groups.	Ongoing; annual review	Report on events attended and participation in local collaboration groups.	General Fund/ Stormwater Fund	
	F. City Council Support for water quality efforts	Ensure City Council is aware of TMDL requirements, TMDL Implementation Plan, and city-wide efforts to improve water quality.	City Council meeting overview and acknowledgement of TMDL Plan, Annual Report, and Five Year Review.	Revised Matrix presented to City Council; Annual City Council meeting minutes.	Ongoing; annual review	Annual meeting with City Council about TMDL responsibilities, progress, funding needs, etc.	General Fund/ Stormwater Fund	
	G. Staff Training and Good Housekeeping	Implement recommendations of Stormwater Master Plan for stormwater system maintenance.	Establish a stormwater system maintenance program per the recommendations of the Stormwater Master Plan.	Program and fund stormwater system maintenance activities: street sweeping, inlet inspection, system cleaning.	Year 1-2: Establish program. Year 3-5: Implement maintenance program recommendations.	Report on maintenance activities.	General Fund/ Stormwater Fund	
		Annual staff training.	One staff member participate in one training event per year and give presentation to other staff, as applicable.	Participation in one training event annually.	Training - annually, ongoing.	Documentation of training event attended and materials presented to other staff, as applicable.	General Fund/ Stormwater Fund	
	H. Public Involvement	Provide opportunities for public involvement.	Include public outreach events in master plan processes and provide public comment periods for adoption of master plans. Allow for public comments on stormwater related topics at council meetings.	Provide materials for public review ahead of meetings by posting on website.	Ongoing; annual review	Report on public outreach activities conducted and comments received.	General Fund	