

**City of Gates 2018-2023 TMDL Implementation Matrix
Sept 2022 through December 2022 Revised Mercury TMDL**

Mercury, Bacteria, Temperature

Sources: Bacteria (e.g., domestic sewage, pet waste, failing onsite systems); Sediment and mercury loads (e.g., erosion of soil from construction and post-construction) in stormwater runoff; Solar radiation on streams due to lack of shade canopy

Purpose: Reduce bacteria and sediment and mercury loads from entering stormwater runoff and surface waters. Protect riparian corridors and shade canopy, protect safe beaver habitat, conserve water to mitigate solar heat on surface water

#	WQMP Stormwater Measure BMP STRATEGY	MEASURE REPORTING STATUS DELIVERABLE	TIMELINE	BENCHMARK Goals, steps, milestones for implementation	FUNDING Plan Implementation Reasonable Assurance	REPORTING DELIVERABLE STATUS 5 Reports for 2018-2023 Report #5
---	---	--	----------	---	--	--

Public Involvement and Participation

Awareness of water quality protection programs

1	Reasonable assurance plan will be implemented and sustained overtime Cost analysis and estimation page 128-221 of https://www.oregon.gov/deq/wq/Documents/willHgtmdlwqmpF.pdf	Describe annually how budget was confirmed for plan implementation each year of implementation	2018-2023 ongoing activity	1. Update plan for mercury TMDL due Sept 2022 2. Budget development and City Council approval for plan development, implementation, annual status reporting and a five-year review	Annual costs and funding to determine extent of each BMP activity	Updated Feb 2, 2022 Budget in place for June 2023
2	Provide opportunities for the public to effectively participate in the development and implementation TMDL plan	Annual confirm public website link		Establish City website and incorporate water quality protection if opportunity arises www.cityofgates.com	Marion County sponsored	www.cityofgates.com
4	Provide opportunities for the public to effectively participate in the development and implementation TMDL plan	Annually provide web link for access to Plan and reports viewing	Plan and reports posted Feb 3 2023 reports posted for 2023-2028 cycle	Post City Council reviewed implementation plan and reports on website Post revised mercury plan on website upon DEQ approval	Funding included in basic operational costs.	Will provide dates of posting 2024 report

Public Education and Outreach

Conduct ongoing education and outreach to inform the public about the impacts of stormwater discharges on waterbodies and the steps that they can take to reduce mercury-related pollutants in stormwater runoff

5	Promote water quality protection – “Conserve water protect its source”	Report website link for water quality educational and outreach documents; Describe what messages were used for stormwater and water quality protection	2018-2023 ongoing activity	Incorporate water quality protection information on city website www.cityofgates.com Post water quality documents, in addition to TMDL plan and matrix, on city website	Funding included in basic operational costs.	www.cityofgates.com
---	--	--	----------------------------	---	--	--

6	Promote available grant funding for the repair of a rehabilitative housing including repair/replacement of failing septic – Reduce Bacteria, nutrients, phosphorous, and nitrates	Annual provide working links for funding posts on website; Describe any septic repairs and replacements tracked	2018-2023 ongoing activity	Posted grant information on website; Provide info to residents whose septic systems are failing. https://www.cityofgates.com/updates/blog-post-title-four-anffy	Administrative costs for maintenance	https://www.cityofgates.com/updates/blog-post-title-four-anffy
7	Mercury/Air Pollution/deposition - Promote Carpooling, public transportation	Annual confirm program in-place for residents commuting;	2018-2023 ongoing activity	Obtain Grant for gazebo park and ride CARTS bus	Grant	Active
8	Monitor and track effectiveness of education and outreach activity	Annually track Gazebo and CARTS participation and compare results between each year	Reassess at five-year review in 2028 – Table 13-11 and 13-14 mercury 2019 WQMP	Qualitatively track education and outreach program to inform future outreach and target audiences and confirm stormwater issues of significance in city are being addressed	-----	-----

Pollution Prevention and Good Housekeeping for Municipal Operations

Properly operate and maintain city facilities, using prudent pollution prevention and good housekeeping to reduce the discharge of bacteria and mercury-related pollutants, such as sediment, through the stormwater conveyance system to waters of the state

11	Minimize pet-waste entering stormwater to reduce bacteria entering municipal stormwater conveyance ditches	Annual report number of pet pickup stations working and in use	2018-2023 ongoing activity	Pet waste stations installed; Bags being replaced	General Fund or Small Grant; 2nd pet station installed	In place and operational (2)
12	Ensure city owned or operated facilities with industrial activity identified in DEQ's 1200-Z Industrial Stormwater General Permit have coverage under this permit.	Annually provide description, and date, of any new 1200Z City facility identified during the reporting year or document none	2018-2023 ongoing activity	1. Obtain 1200Z permit for applicable City operations 2. Initial check for: DEQ database for City owned 1200Z facilities & City building inventory 7/2/2022 and 7/7/2022 3. Evaluate new city owned facilities or changes for 1200Z	Planning and building if new properties	No industrial facilities owned or bought
13	Maintain grass swales/ditched to reduce sediment laden stormwater to reduce mercury and bacteria	Annual describe that city maintains grassy swales for ditching system	2018-2023 ongoing activity seasonal	1. Grass ditches and swales maintained for stormwater flows implemented for flooding mitigation	General Fund	Ongoing mowing in summer and debris as needed thru out year

Illicit Discharge Detection and Elimination

Implement and enforce a program to detect and eliminate illicit discharges into the stormwater conveyance system to reduce sediment load and other pollutants in runoff

14	Develop and routinely maintain a digital current map of stormwater conveyance system for location of outfalls and an outfall inventory, conveyance system and stormwater control locations	-----	Reassess at five-year review in 2028 – Table 13-11 and 13-14 mercury 2019 WQMP	-----	-----	-----
15	Prohibit non-stormwater discharges into the stormwater conveyance system (illegal discharges to stormwater system) a) Municipal code for verbal or written notifications for impacts to water quality to establish compliance. Gates section 3 code is: 229 NUISANCES AFFECTING PUBLIC HEALTH and welfare, includes water. b) Maintain a procedure or system to document all complaints or reports of illicit discharges into and from the stormwater	Annual describe approximate number of complaints requiring city response or referral	2018-2023 ongoing activity	Receive and respond to complaints regarding water quality concerns (erosion; illicit discharge; impact to riparian areas) Enforce nuisance control ordinance; Coordinate	General Fund	One complaint regarding bank disposal notified landowner and they stopped

	conveyance system.					
16	Prohibit non-stormwater discharges into the stormwater conveyance system a) Through enforcement of an ordinance or other legal mechanism for appropriate enforcement procedures and actions to ensure compliance.	See process in 14 above used currently	Reassess at five-year review in 2028 – Table 13-11 and 13-14 mercury 2019 WQMP	-----	-----	-----
17	Prohibit non-stormwater discharges into the stormwater conveyance system c) Define the range of illicit discharges code/ordinance covers, including those discharges that are conditionally allowed, such as non-stormwater discharges or flows such groundwater, irrigation water in the ordinance or other legal	-----	Reassess fat five-year review in 2028 – Table 13-11 and 13-14 mercury 2019 WQMP	-----	-----	-----

Construction Site Runoff Control

Sediment in runoff leaving construction sites and/or activity into stormwater conveyance system. Implement a Construction Site Runoff Control Program
Solar Radiation (lack of shade; tree and vegetation removal); Erosion of Sediment

18	City check/Confirmation during development and redevelopment planning phase ordinances to establish setback	Describe number of sites approved prior and post building	2018-2023 ongoing activity	Ordinances confirmed; Riparian buffer not being built on - During permit review for redevelopment and development confirm compliance with the following zoning ordinances: Chapter 22 Landscape and North Santiam River and Pierce Creek Setback	Grant for ordinance review DLCD; General Fund	Routine protocol in permits utilized; ed and outreach w/landowners
19	Erosion control for building for conventional subdivisions and partitions	Describe number of sites approved prior and post building	2018-2023 ongoing activity	Chapter 19 Land Divisions Section 19.050 Application Requirements for erosion control; Marion County site evaluation prior to building and final inspection	Builder	Marion County process; Public Works at City works w/builders to confirm erosion – at least one
20	Refer project sites to DEQ, or the appropriate DEQ agent, a) To obtain NPDES 1200-C Construction Stormwater Permit coverage 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 b) Coordinate permit acquisition with County and developers for >=1 acre	# of 1200C permits issued in packets; Number of packets sent to County	2018-2023 ongoing activity	Conduct packet review when received prior to mailing to County	Builder	Marion County process; one site in-process for determination
21	Require construction site operators to complete and implement an Erosion and Sediment Control Plan for construction project sites in jurisdictional area for minimum land disturbance of 21,780 square feet (one half of an acre) or more, and are	See 19 above for Gates process	Confirm if 21 is met - Reassess at five-year review in 2028 – Table 13-11 and 13-14 mercury 2019 WQMP	-----	-----	-----
22	Through ordinance or other regulatory mechanism, to the extent allowable under state law, require erosion controls, sediment controls, and waste materials management controls to be used and maintained at all qualifying construction sites one half of an acre or more and not covered by DEQ 1200-C	See 19 above for Gates process	Confirm if 22 is met - Reassess at five-year review in 2028 – Table 13-11 and 13-14 mercury 2019 WQMP	-----	-----	-----

23	Develop, implement, and maintain a written escalating enforcement and response procedure for all qualifying construction sites. The procedure must address repeat violations through progressively stricter response, as needed, to achieve compliance	-----	Reassess at five-year review in 2028 – Table 13-11 and 13-14 mercury 2019 WQMP	-----	-----	-----
Post-Construction Runoff for New Development and Redevelopment						
Storm runoff from impervious surfaces. Develop, implement, and enforce Post-Construction Program to reduce discharges of pollutants and control post-construction stormwater runoff from new development and redevelopment project sites in its jurisdictional area.						
24	City check/Confirmation during development and redevelopment planning phase ordinances to establish setback from riparian	See 18 above status	2018-2023 ongoing activity	Ordinances confirmed; Riparian buffer not being built on - During permit review for redevelopment and development confirm compliance with the following zoning ordinances: Chapter 22 Landscape and North Santiam River and Pierce Creek Setback	Grant for ordinance review DLCD; General Fund	See 18, 19, 2-. Combined process for planning and development.
25	Through ordinance or other regulatory mechanism, require new or redeveloped areas that create or replace 10,890 square feet or more of new impervious surface area: (A) The use of stormwater controls at all qualifying sites. (B) 1. A site-specific stormwater management approach that targets natural surface or pre-development hydrological function through the installation and long-term operation and maintenance of stormwater controls. 2. Retain rainfall on-site and minimize the offsite discharge of precipitation utilizing stormwater controls that infiltrate and evapotranspiration stormwater. 3. For projects that are unable to fully retain rainfall/runoff from impervious surfaces on-site, the remainder of the rainfall/runoff from impervious surfaces must be treated prior to discharge with structural stormwater controls. The stormwater structural controls should be designed to remove, at a minimum, 80 percent of the total suspended solids. 4. City program for long-term operation and maintenance of stormwater controls at project sites that are under the ownership of a private entity.	Annually describe any program activity implemented under 23 A B 1	23 A B 1 2018-2023 ongoing 23 A B 2, 3, 4. Reassess at five-year review in 2028 – Table 13-11 and 13-14 mercury 2019 WQMP	23 A B 1. - Chapter 21 Stormwater Management 21.030, 21.040 10K impervious surface	-----	-----