

State of Oregon Department of Environmental Quality

Willamette Basin Five-Year Review

City, County, Special District TMDL Implementation 2013-2018

Contact: TMDL Program 700 NE Multnomah St.

Suite 600 Portland, OR 97232 Phone:503-229-5696 800-452-4011

Fax: 503-229-6762 www.oregon.gov/DEQ

2018 survey of TMDL implementation strategies

The Oregon Department of Environmental Quality surveyed Designated Management Agencies, or DMAs, in the Willamette Basin in 2018 to understand Total Maximum Daily Load implementation strategies used during the previous four years. DEQ Basin Coordinators agreed upon the number and breadth of the strategies placed on the survey with the understanding that it would not be possible to know all strategies DMAs are currently using before the survey was distributed. Some of these strategies may be innovative or underused, and therefore important to communicate to other TMDL implementation practitioners. The survey results are the subject of this fact sheet, and were not summarized in the March 2020 Willamette Basin Five-Year Review Report. DEO hopes that this information can be helpful when management agencies update their nonpoint source TMDL implementation plan matrices.

DMA survey responses

DEQ surveyed DMAs in the Willamette Basin and their responses fit into five categories: Collaboration; Outreach, Education, and Public Involvement; New Strategy Not in Survey for Selection; Commendable Actions; and Proposed TMDL plan updates (see Figure 1).

The survey included a checklist of five stormwater control measures and one riparian program planning control measure. DMAs could select from a list of pre-selected best management practices and strategies associated with each control measure, as well as an "other" category. DMAs used the other category when they wanted to report a strategy that was not included in the list of pre-selected best management practices or highlight additional information about their program. DMAs selected other approximately 120 times, which indicates that DMAs continue to identify and implement new or different best management practices and strategies.





Program planning control measure strategies

Control measure grouping is an effective way to address TMDL pollutant load allocations in a nonpoint TMDL implementation plan. Table A groups the reported strategies and best management practices by the 2018 survey control measures. The table also includes the popular and unique strategies Willamette DMAs reported in the other category.

> Published: 8/10/2020 By: ngramli

Table A. Program planning control measure strategies

Construction erosion control

Strengthened grading and erosion control ordinance

Relied on 1200-C permit field inspection manuals and qualified inspectors

Had DEQ agents administer 1200-Z, 1700-Aand 1200-C permits

Provided best management practice (BMP) manual to control stormwater runoff, including soil stabilization, vegetation management and spill clean-up

Illicit discharge detection and elimination

Adopted illicit discharge code in jurisdictions without stormwater municipal permits

Held collaborative annual clean-ups with adjacent cities

Used Geographic Information System (GIS) for stormwater conveyance mapping in jurisdictions without stormwater municipal permits

Updated stormwater conveyance map annually or as needed in jurisdictions without stormwater municipal permits

Controlled inputs from commercial properties

Incentivized private drain cleaning via a voluntary program

Hired intern to collect Global Position System (GPS) data for the locations of all private drains; DMAs repair private drains

Established nuisance ordinance for debris, stagnant water and privies

Created fat, oil, and grease program to reduce stormwater impacts

Conducted pilot project with Contech to test a new stormwater quality treatment system

Maintained existing storm drain decals and installed decals at new development

Ran program to control and reduce illegal solid waste dumping

Outreach, education, and public involvement

Conducted annual phone survey

Took part in Big Float event with Willamette River Portland Human Access Project

Partnered with U.S. Environmental Protection Agency on environmental justice messaging through the Clean Rivers Coalition

Joined state-wide campaign for clean water through the Clean Rivers Coalition and Meyer Memorial Trust

Collaborated with Friends of Trees, Northwest Center for Alternatives to Pesticides, U.S. Geological Survey research, SOLVE

Funded local watershed councils, supporting riparian restoration and water protection projects, as well as education and outreach

Created online program and phone app work request form for public use to protect stormwater

Analysed public education effectiveness with the Oregon Association of Clean Water Agencies

Distributed results of Oregon State University well water testing

Utilized social media such as Twitter, Facebook, NextDoor, and Instagram

Had public work departments provide water quality pamphlets in lobbies for visitors

Utilized social media instead of printed materials

Helped watershed councils leverage funding from cities to implement stormwater quality projects

Watershed councils provided garbage cans and signs to keep trash out of the creek

Published: 8/10/2020 By: ngramli

Table A. Program planning control measure strategies (continued)

Pollution prevention municipal operations

Adopted new stormwater manual, outlining BMPs for roads and parks

DEQ agent administered county "on site" program for small cesspools and septic systems

Hired a contractor for technical reports and TMDL compliance regulation assistance

Created new or updated stormwater utility service charge

Provide mercury amalgam program in jurisdictions without municipal stormwater permit

Post-construction

Contracted with watershed councils to implement Low Impact Development (LID) Stormwater Manual

Implement new stormwater and grading design manual emphasizing the use of LID

Implemented LID and BMPs on all new subdivisions and projects within city limits

Developed and implemented stormwater master plan

Built regional stormwater facility to reduce peak flows and sediment load

Created intergovernmental agreement for post construction

Riparian protection and restoration

Worked with Tree City USA to implement yard tree program and tree coupon program

Restarted riparian monitoring project; conduct "ground truthing" for shade opportunity areas

Mapped cold water refugia

Provided backyard habitat certification program; bee stewards pollinator habitat creation and restoration

Removed creek blockage in park; invasive plant removal at riverfront property

Investigated in-stream water transfer for city park

Acquired property along a streambank

Sent mailings to streamside owners to support riparian corridor protection

Removed invasive species and replant native plants to help reduce erosion

Collected LIDAR data to re-evaluate canopy coverage; update and simplify buffer shade models

Provided loans to replace and repair aging drinking water distribution lines

Held urban forestry workshop and conducted wetland restoration project on lake

Contact information and resources

Locate a Willamette Basin Coordinator

DEO TMDL Guidance

February 2014 Willamette Basin TMDL Five-Year Review

Willamette Basin TMDLs

Alternative formats

DEQ can provide documents in an alternate format or in a language other than English upon request. Call DEQ at 800-452-4011 or email deqinfo@deq.state.or.us.

Published: 8/10/2020 By: ngramli