



Public Works Department

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June 25, 2021

Roxy Nayar, Basin Coordinator
Oregon DEQ
700 NE Multnomah St #600,
Portland, OR 97232
Phone: 503-229-6254

RE: 2020/21 TMDL Report for City of Molalla

Dear Basin Coordinator,

Attached is the 2020/21 TMDL Temperature and Bacteria Report Matrix for the City of Molalla. The City has also added the six new adaptive management categories prepared by the City to meet the requirements of the new 303(d) listing of Mercury and the EPA's November 2019 approved "Final Revised Willamette Basin Mercury Total Maximum Daily Load." These are Six Measures for Cities to Reduce Stormwater Impacts to Water Bodies as found on page 91-221 of the Final Revised TMDL. These are shown as being now in the planning process (TBD), which began in February 2021.

The City is proud of its efforts toward State TMDL goals this past year. Over 110,000 lbs of debris were removed from streets by sweeping; all development over the past year including storm facility design and construction to ensure a pre-developed hydrology from all sites; and the City has made progress in decommissioning septic systems within City Limits.

Please let me know if you need any additional information.

Sincerely,

Andy Peters, Operations Supervisor

Cc: Gerald Fisher, Public Works Director
Dan Huff, City Manager

POLLUTANT: Temperature		City of Molalla: TMDL Implementation Tracking Matrix						
SOURCE <i>What sources of this pollutant are under your jurisdiction?</i>	STRATEGY <i>What is being done, or what will you do, to reduce and/or control pollution from this source?</i>	HOW <i>Specifically, how will this be done?</i>	FISCAL ANALYSIS <i>What is the expected resource need? Are there existing resources budgeted? If not, where will the resources come from?</i>	MEASURE <i>How will you quantitatively or qualitatively demonstrate successful implementation or completion of this strategy?</i>	TIMELINE <i>When do you expect it to be completed?</i>	MILESTONE <i>What intermediate goals do you expect to achieve, and by when, to know progress is being made?</i>	ADAPTIVE MANAGEMENT APPLIED <i>Indicate how strategies have changed with annual review reports.</i>	STATUS <i>Include summary and date.</i>
Lack of shading in riparian areas	Protect and enhance existing vegetation in riparian areas.	Enforce existing Municipal Code 17-2.4.030 for new development: 50 ft. riparian and wetland setback and protection of native vegetation.	Code enforcement staffing; 0.20 FTE is currently funded.	Track enforcement actions and violations as well as development plan review. Record square footage of riparian area protected with all development.	On-going	Retain all existing riparian vegetation on developments planned through 2020, as required by Municipal Code 17-2.4.030. Report areas protected in annual TMDL review report.	No changes made to code or application of code.	Protection of riparian areas adhered to with development of Cascade Center (19-04)

Lack of shading in riparian areas	Protect and enhance existing vegetation in riparian areas.	Removal of creosote-treated railroad-tie bridge over Bear Creek on Molalla Forrest Road (19-07)	\$90,000	Railroad ties can leach creosote into soil and water systems. The removal is being done in accordance with approvals from DEQ, DSL, SHPO and US Army Corps of Engineers	1 year	Annual review of budget for possible implementation or private development. Report funding status in annual TMDL review report.	This project replaces the Bear Creek Greenway Project which was completed in 2018	Construction scheduled for July 2019 has been completed and a second phase has begun which includes a stream-spanning footbridge and riparian improvements. A third phase is also being planned, and is in the land acquisition stage, which the City expects to report on in 2021.
Lack of shading in riparian areas	Protect and enhance existing vegetation in riparian areas.	Conduct public education on protection of riparian areas.	Staffing to conduct educational effort; 0.20 FTE currently funded.	Number of Pre-application Meetings, which include public education	On-going	Educational outreach once per year through 2021. Provide outreach details in annual TMDL review report.	No change.	Continued education of development community and property owners during pre-application meetings.

Lack of shading in riparian areas	Protect and enhance existing vegetation	Tree protection as required by City Code 17-3.4.030.	Staffing as required for plan review and enforcement.	Track enforcement actions and violations as well as number of existing trees retained with each development.	On-going	Maintain all existing trees, where possible, on new development as required by Municipal Code 17-3.4.030.	No changes made to code or application of code.	Community Planner continued enforcement of development code on all projects.
Lack of shading in riparian areas	Partner with watershed groups and Clackamas County SWCD	Establish working relationships, Partner on riparian restoration projects, and public outreach opportunities	Volunteer staffing as required	Number of meetings attended, and projects collaborated on	5 Years	Attend at least one meeting annually 2020	The City has exceeded its goals in this area.	The City continues to provide a volunteer board member for Pudding River Watershed Council
Lack of shading in riparian areas	Tree planting	Enforce tree planting and landscaping by way of Municipal Code 17.3.4.	In City budget for Code enforcement staffing.	Number of trees planted and Area landscaped.	On-going	Establish list of projects that provided new trees and landscape areas through 2020 and include in annual TMDL review.	No changes made to code or application of code.	The City established project 20-07 "Creamery Creek Park", which includes riparian tree management. Design completion is planned for 2021 with constructed in 2022.

Stormwater	City Council overview and acknowledgement .	Review TMDL Plan, annual reports and five year review with City Council.	None	Track number of times TMDL reports are covered in City Council meeting minutes.	On-going	City Council approval of TMDL Plan and review reports.	No change.	Council reviewed draft TMDL Report as part of regular meetings in May 2021.
Reduced stream flow in Molalla River and tributaries	Reduce municipal water diversion.	Water conservation efforts	Staffing to complete scada programming and review compliance with AWWA Water Audit standards; 0.15 FTE currently funded.	Monitor total water use VS Total Production	On-going	Water use reported annually in TMDL report.	Changed measurement to include the concrete actions being taken	In 2020 The City completed installing and calibrating its final effluent flow meters at the Water Treatment Plant, including Scada integration. The City is now moving on to developing its comprehensive monthly water auditing systems which will allow the City to measure water loss and progress in improving water loss in the coming years.

Wastewater treatment plant discharge	Maintain low effluent temperatures .	Maintain compliance with NPDES permit requirements.	Wastewater treatment staff; funded positions.	Molalla River temperature monitoring.	Continuous temperature measurement ; monthly permit reporting.	Report instream temperature monitoring with annual TMDL report review.	No change.	Effluent temperatures are available by reference to the City's monthly Discharge Monitoring Reports (DMRs).
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POLLUTANT: Bacteria, Mercury, and Legacy Pesticides				City of Molalla: TMDL Implementation Tracking Matrix				
SOURCE <i>What sources of this pollutant are under your jurisdiction?</i>	STRATEGY <i>What is being done, or what will you do, to reduce and/or control pollution from this source?</i>	HOW <i>Specifically, how will this be done?</i>	FISCAL ANALYSIS <i>What is the expected resource need? Are there existing resources budgeted?</i>	MEASURE <i>How will you quantitatively or qualitatively demonstrate successful implementation or completion of this strategy?</i>	TIMELINE <i>When do you expect it to be completed ?</i>	MILESTONE <i>What intermediate goals do you expect to achieve, and by when, to know progress is being made?</i>	ADAPTIVE MANAGEMENT APPLIED <i>Indicate how strategies have changed with annual reports.</i>	STATUS <i>Include summary and date.</i>
Stormwater	Promote Low Impact Development and on-site stormwater treatment.	Encourage green street standards – at least half street improvements with new development. Meet pre-development hydrology requirements per Municipal Code 17-3.6 and Public Works Design Standards Section 3.2.	Currently in Public Works budget.	Percent of green street standards for each project. For each project, stormwater quantity calculations to meet pre-development hydrology and water quality requirements per PW Standards.	On-going	All new development plans incorporate green street standards where practical and include pre-development hydrology. Report applicable improvements in annual TMDL review report.	No change.	Protection of riparian areas adhered to with development of Cascade Center (19-04).

Stormwater	Promote Low Impact Development and on-site stormwater treatment.	Incorporate stormwater treatment with transportation projects	Included in city budget according to capital improvement plan.	Project that include installed of stormwater treatment features	20 21	Hwy 211 sidewalk project	Listed most current projects.	This project completed design in 2020 and includes water quality swales and stormwater enhancements.
Stormwater	Promote Low Impact Development and on-site stormwater treatment.	Encourage use of drainage swales that settle, infiltrate, and treat turbid runoff. Current Public Works Design Standards Section 3.5 provides design specifications for drainage swales.	Currently in City planning budget for plan review.	Track number of projects that incorporate drainage swales.	On-going	Add drainage swales installed to GIS Stormwater map by end of 2021. Report number of water quality facilities constructed in annual TMDL review report.	No change.	Nine water quality swale incorporated into Cascade Center design. HWY 211 Sidewalk Construction Design, including Filter Treatment systems for catch basins. Leroy Avenue Fronting Project has gone into design this year and also includes Filtered Treatment Systems. GIS work scheduled.
Stormwater	Reduce pet waste in stormwater runoff.	Install waste bags in parks and common dog-walking locations. Citizen education about improper pet waste management.	Currently in Parks budget.	Track waste bag usage within the City.	On-going	Report bag use in annual TMDL review report.	No change.	Supplied 2580 bags in City Parks in 2019/2020, down from 3283 last year, likely due to lighter park usage.

Stormwater	Educate developers and the public about stormwater and hydrology in the City of Molalla.	Make Stormwater Master Plan and Public Works Design Standards available to public via City website.	None	Number of private development that meet stormwater standards.	On-going	All Private development projects meet stormwater detention and water quality requirements.	No change.	Protection of riparian areas adhered to with development of Cascade Center (19-04).
Stormwater	Prevent erosion from construction sites.	Conduct grading inspections per Municipal Code 21.70 to ensure protection against erosion.	Currently in Public Works budget.	Percent of sites that comply voluntarily.	Ongoing	Report permitted excavation projects that complied with Municipal Code 21.70 in annual TMDL review report.	No change.	Reviewed with development Cascade Center (19-04).
Stormwater	Prevent erosion from construction sites.	Cooperate with DEQ to enforce erosion control through 1200C permits as required by Municipal Code - Chapter 17 and Public Works Design Standards 1.18.4.	Currently in Public Works budget.	Keep track of 1200C permits within City boundaries.	On-going	Report projects that complied with 1200C permits in annual TMDL review report.	No change.	
Stormwater	Reduce runoff and sediment load from impervious areas: roads, vacant lots.	Maintain weekly street sweeping schedule.	Currently in Public Works budget.	Using street sweeping log, track frequency of areas cleaned.	On-going	Report volume estimate of street sweepings in annual TMDL review report.	No change.	Approximately 127 CY (114,232 lbs) between 6/1/20-6/1/21

Stormwater	Maintenance Program for stormwater collection system.	Maintain storm system components including; catch basins, manholes and pipes.	Currently in Public Works budget. System Development Charges in place for storm drainage	Track maintenance projects that improve stormwater system. Construct Decant Facility as funding allows.	On-going	Indicate number and type of maintenance projects in annual TMDL review report. Provide funding status for Decant facility in annual	No change.	Decant Facility budgeted for FY 21-22
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Combined storm and sanitary sewers, and Inflow/Infiltration	Increase effectiveness and efficiency of wastewater treatment.	Eliminate illicit discharge and infiltration issues in downtown core.	To be determined.	Average daily flow to treatment plant before and after cross connect issues addressed.	5 years	Report completion of planned inflow/infiltration projects in annual TMDL review report. Include annual review of budget for inflow/infiltration projects.	No change.	Completion of sewer project on Patrol St. Completion of repairs to the Molalla Lift Station Feeder Line (a High Priority Project in the Wastewater Collection System Master Plan). Total influent at the WWTP measurably reduced, estimated 26% reduction since 2018 at the time of this report.
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Combined storm and sanitary sewers, and Inflow/Infiltration	Decommission Septic Systems per Municipal Code 13.08.300 – Upon Availability of Public Sewer – Abandonment of Private Systems.	Administer 30 day notice to connect to city sewer where public sewer is made available.	Planning staff, full time.	Number of new connections made annually as a result of annexations, violations discovered.	On-going	Connect all residential, commercial, industrial properties within city limits to city sewer and report in annual TMDL review report.	No change.	Began the process of bringing 11 properties within city limits off septic and onto sewer per new code requirements.
Illegal Discharge and Industrial Pretreatment Program	Code enforcement of Municipal Code 13.08.840 – Discharge Into Storm Drains. Establishment Pretreatment code: 13.13.530	Provide code enforcement form to citizens. Update Industrial Pretreatment Survey.	Currently in City budget for Operations Supervisor.	Track number of complaints and issues.	On-going	Code enforcement form has been made available on the City of Molalla website. Report number of complaints received, and corrective actions taken in annual TMDL review report.	No change.	The City received zero illegal discharge complaints in 2020.
Mercury Measure #1	Pollution Prevention and Good Housekeeping for Municipal Operations	TBD	TBD	TBD	TBD	TBD	TBD	TBD

Mercury Measure #2	Public Education and Outreach	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Mercury Measure #3	Public Involvement and Participation	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Mercury Measure #4	Illicit Discharge Detection and Elimination	TBD	TBD	TBD	TBD	TBD	TBD	TBD

Mercury Measure #5	Construction Site Runoff Control	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Mercury Measure #6	Post-Construction Site Runoff for New Development and Redevelopment	TBD	TBD	TBD	TBD	TBD	TBD	TBD