

TMDL Implementation Tracking Matrix: Lowell, Oregon
Lowell has legal authority over land use on 460 acres within the City’s limits. The three drainages within city limits run ~1.75 miles through length of the City and drain into Dexter Lake. The land upstream from Lowell is mostly Willamette National Forest.

POLLUTANT	SOURCE of POLLUTANT	STRATEGY <i>What we are doing and will do to reduce pollution from this source</i>	ACTIONS <i>Specific ways to implement strategies</i>	BENCHMARK <i>Intermediate indicators to know progress is being made</i>	TIMELINE	MEASURE <i>How we will track implementation and completion</i>	FUNDING	STATUS
Temperature	1. Solar radiation input	a. Protect and enhance existing riparian vegetation and wetland habitats	Continue to review existing watershed maps/aerial images and identify priority areas for riparian plantings	Document aerial images that will be used as baseline for use in 2025 assessment	- Year 1: Document most recent and previous aerial images that will be used as the baseline for comparison in 2025 - Year 3: Compare changes in aerial images of vegetation from baseline images to most recent images. - Year 3: Develop priority list of areas for riparian plantings or maintenance of previous plantings. - Year 3: Identify funding needed to address priority list - Years 4-5: Implement new plantings or maintain previous plantings per the priority list and available funding	Priority list and map of priority areas is reviewed and updated every two years, started in 2018 Priority list of planting areas is developed, and funding needs are quantified	Wastewater Fund	COMPLETED AND ON-GOING. Comparisons completed. Previous planting areas are maintained. Still seeking funding.
			Enforce riparian protection requirements in Lowell Development Code 9.600-9.604	Tracking mechanism for code violations is in place	- In progress, ongoing - Annual review	Track and document code violations of LDC, and any enforcement actions taken, as it relates to riparian and wetland setbacks Track and document variances to development codes that the city grants within setback areas.	Wastewater Fund	COMPLETED AND ON-GOING No variances issued or violations of LDC
			Continue to partner with USACE to monitor, enhance and improve West Boundary riparian restoration area	- Assist in removal of non-native plants and replace with native species - Monitor progress of planted vegetation - Provide bi-weekly watering for new vegetation during dry weather	- Contact and begin working with USACE - Provide seasonal updates to USACE on survival of vegetation	Track and document work completed as part of this partnership, including size of areas treated for invasive species, plant mortality rates, and watering schedule.	Wastewater Fund	COMPLETED AND ON-GOING
	2. Wastewater treatment plant discharge	a. Maintain low Effluent Temperatures	Maintain compliance with NPDES permit requirements	Reporting shows effluent temperature complies with permit requirements	- In progress and on-going - Annual review	Track deviations from NPDES requirements	Wastewater Fund	COMPLETETED No violations of NPDES permit (New NPDES permit expected later in 2026).

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Bacteria	3. Pet/Animal waste & yard debris	a. Reduce the amount of pet/animal waste that is not properly disposed of	▪ Maintain pet/animal waste stations including bags, educational signs, and other information at City Parks ▪ Inspect stations weekly with park inspections	▪ Pet/animal Waste Bags being used/replaced ▪ Stations inspected and cleaned weekly	▪ In progress, ongoing ▪ Annual review	▪ Track maintenance schedule and annual cost of maintaining pet stations	Wastewater Fund	COMPLETED Tracked and quantified.
		b. Educate citizens about the importance of removing yard debris, and animal waste, from waterways & riparian areas	Enforce existing pet/animal waste ordinance	• Ordinance 289 LRC 5.204(a)(1-3) in place and enforced	• In progress, ongoing • Annual review	• Track the number of citations issued	Wastewater Fund	COMPLETED No citations issued in 3rd year of this 5-year plan
			• Provide educational information on City website	• Publish informational article(s) on City website	• Annual review	▪ Document educational information provided ▪ Track number of educational events and topics covered	Wastewater Fund	COMPLETED Recent training performed at school. Educational Information is available on website
	4. Stormwater discharge	a. Educate the public of ways to minimize stormwater impacts	• Distribute fact sheets at City Hall • Post informational materials on water quality to City website	▪ Fact sheets available ▪ Informational material available on website	▪ Year 1 (2023): Review current materials and website and make updates if needed ▪ Years 1-5: Continue to provide up to date materials at City Hall and on the city’s website	Copies of fact sheets available at City Hall and posted on website	Wastewater Fund	COMPLETED
			Add materials on stormwater to the City website	Materials reviewed and selected	▪ Year 1: Begin reviewing existing information in 2023 ▪ Year 2: Add materials to website ▪ Years 3-5: Update website info as needed	Stormwater section added to Website and kept current	Wastewater Fund	COMPLETED AND ON-GOING
		b. Illicit discharge, detection and elimination (IDDE)	Enforce existing Discharge ordinance(s)	• Ordinance 266 LRC 4.248-4.273(a)(b) in place and enforced • Ordinance 252 LDC 9.520 in place and enforced	• In progress, ongoing • Annual review	• Track and document the number of IDDEs and any citations	Wastewater Fund	COMPLETED NO IDDEs to report or track
	5. Wastewater treatment plant	Maintain low Effluent bacteria levels	Maintain compliance with NPDES permit requirements	▪ Undertake annual reporting process ▪ Reporting shows effluent bacteria complies with permit requirements	▪ In progress and on-going ▪ Annual review	Track deviations from NPDES permit	Wastewater Fund	COMPLETED AND ON-GOING No violations of NPDES permit

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All Pollutants	6. Pollutant prevention and Program support	Implement outreach and education activities	Provide training for Public Works Staff	▪ Training selected and scheduled	▪ Year 1: Review training materials that are available ▪ Years 1-5: provide at least one training course a year ▪ Annual review	Track and document training courses attended and topics covered. Document that all public works employees are up to date using latest materials	Wastewater Fund	COMPLETED All Staff up to date
			Add interpretive signage associated with restoration projects as they are completed	▪ Sign designed and sites determined as projects are completed	▪ Years 1-2: identify at least one location where signage is appropriate ▪ Years 1-3: identify funding needs for installing at least one sign ▪ Years 4-5 Install at least one interpretive sign	At least one interpretive sign installed in the City of Lowell during this five-year cycle	Wastewater Fund	COMPLETED Several locations identified for signage. Funds budgeted for installation in FY26/27.
		Reduce the amount of hazardous waste that is not properly disposed of	Host Annual Hazardous Waste Clean up	▪ Annual event scheduled	▪ In progress, ongoing ▪ Annual review	Document event date, and volume collected	Wastewater Fund	Annual event rescheduled for the end of May 2026 (5/22-31) due to weather delays.
		Seek opportunities to partner with other local governments and organizations, including watershed council, to implement nonpoint source outreach and education and on-the-ground projects	• Continue to be involved in regional water resource planning efforts	▪ Two meetings attended annually ▪ Mayor volunteers on MFWWC Board of Directors	▪ In progress, ongoing ▪ Annual review	▪ Track attendance at region-wide water resource planning meetings ▪ Track support of proposals that work on region-wide coordination	Wastewater Fund	COMPLETED Meetings are regularly attended virtually; Former Mayor no longer on MFWWC Staff.
		TMDL review and updating	Review and update TMDL plan as required by DEQ.	▪ Submit annual report to DEQ on status of TMDL implementation every year ▪ Submit Year Five Review and updated TMDL matrix every 5 years.	▪ Years 1-4: Submit annual report. ▪ Year 5: Submit Five Year review and Updated Plan	▪ Annual report submitted on time every year ▪ Five Year review and updated TMDL plan submitted on time	Wastewater Fund	COMPLETED
		City Council support for water quality efforts	Ensure City Council is aware of TMDL requirements and plan and city-wide efforts to improve water quality.	▪ Send City Council copies of TMDL materials ahead of annual city council meeting where TMDL is a discussion on the agenda	▪ Annual report or five-year review presented to City Council	Document annual City Council meeting minutes Annual review	Wastewater Fund	COMPLETED TMDL regularly discussed at City Council meetings

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POLLUTANT	STORMWATER MEASURES	SOURCE of POLLUTANT	STRATEGY <i>What we are doing and will do to reduce pollution from this source</i>	ACTIONS <i>Specific ways to implement strategies</i>	BENCHMARK <i>Intermediate indicators to know progress is being made</i>	TIMELINE	MEASURE <i>How we will track implementation and completion</i>	FUNDING	STATUS
Mercury	M 1. Pollution Prevention and Good Housekeeping for Municipal Operations	Properly operate and maintain storm facilities	Decrease soil disturbance in areas sensitive to erosion	Ensure compliance with Section 9.632 of the Land Development Code	Review LDC requirements annually	- In progress, on-going - Annual review	Track applications; document violations and enforcement actions	Wastewater Fund	COMPLETED
		Perform Regular Visual inspections of Storm system	Visually check streams and Basin for proper operation and cleanliness	Schedule inspections Quarterly	System inspected Quarterly	Annual review	Track and document inspections	Wastewater Fund	COMPLETED Inspections completed at minimum quarterly
		Industrial, manufacturing and processing	Ensure that City-owned or operated facilities with industrial activity identified in DEQ’s 1200-Z Industrial Stormwater General Permit have coverage under this permit.	City will refer to DEQ if any Facilities are Developed			Include number of identified facilities in annual review	Wastewater Fund	N/A at this time. No facilities constructed
	M 2. Public Education and Outreach	Educate the public of ways to minimize stormwater impacts	Develop Public Education Program	Provide outreach events to Community and Lowell School District	- Sponsor or support at least one public education/outreach event annually - Publish at least one education article in local newsletter and on City website annually - Perform one qualitative assessment of an outreach and education effort annually	Annually	Document training progress and have a qualitative evaluation of training provided.	Wastewater Fund	COMPLETED. Career Day presentation: “Water/wastewater Operator” including a questionnaire given to class before/after a powerpoint presentation. Annual donation to Middlefork Watershed Council. Article published in local newspaper, <i>The Bridge</i> , and on City website. Performed assessment of outreach.

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	M 3. Public Involvement and Participation	Implement public involvement and participation program	City will provide opportunities for the public to effectively participate in the development of stormwater control measures and comply with its public notice requirements	- Fact sheets available - Informational material available on website	Advertise City Website in Bridge Article and Social Media	Copies of fact sheets available at City Hall and posted on website	Materials posted and advertised to public	Wastewater Fund	COMPLETED
	M 4. Illicit Discharge Detection and Elimination	Develop and enforce Illicit Discharge Detection and Elimination	Enforce existing Discharge ordinance(s) Maintain current Storm Water Map Provide Link to maps on City Webpage. https://www.ci.lowell.or.us/publicworks/page/stormwater	Enforce existing Discharge ordinance(s) Ensure compliance with Ordinance 252 and 266	- Ordinance 266 LRC 4.248-4.273(a)(b) in place and enforced - Ordinance 252 LDC 9.520 in place and enforced Review and Update Annually	- In progress and on-going - Annual review	Track and document the number of IDDEs and any citations	Wastewater Fund	COMPLETED No IDDEs reported. Links available on City Web Page
	M 5. Construction Site Runoff Control	Erosion and Sedimentation	Decrease/Limit sedimentation and erosion from new construction	Require 1200-C permits for new large developments	- Include 1200-C information at City Hall and City website 1200-C incorporated in application review when needed	- In progress, on-going - Annual review	Track new Developments which require a 1200-C	Wastewater Fund	COMPLETED No new developments proposed
		Construction and expansion of infrastructure	Evaluate each Development one half of an acre or larger using LDC 9.520(g)(1-8)	Ensure compliance with Section 9.520 of the Land Development Code	Provide information on treatment methods at City Hall	- In progress and on-going - Annual review	Track and monitor new developments; document violations and enforcement actions.	Wastewater Fund	COMPLETED No developments meet criteria
	M 6. Post-Construction Site Runoff for New Development and Redevelopment	Develop, implement, and enforce post-construction runoff program	Work with Engineer to develop plan	Draft ordinance(s)	Draft plan developed - Maintain records on reports and inspections - Report number of building permits reviewed - Document number of reviews annually	In progress and on-going	Plan and Ordinance developed and adopted	Wastewater Fund	COMPLETED Tracking New Development, Land Use and Building Permits. Working with Engineer to develop plan.