

**TMDL Implementation Tracking Matrix: Independence, Oregon**

2016

Independence has legal authority over land use on 1,738 acres within the City's limits. The Willamette River runs 2.5 miles through the length of the City.

POLLUTANT What pollutants does the TMDL address?	SOURCE What sources of this pollutant are under your jurisdiction?	STRATEGY What is being done, or what will you do, to reduce and/or control pollution from this source?	HOW Specifically, how will this be done?	FISCAL ANALYSIS What is the expected resource need? Are there existing resources budgeted? If not, where will the resources come from?	MEASURE How will you demonstrate successful implementation or completion of this strategy?	TIMELINE When do you expect the strategy to be completed?	MILESTONE What intermediate goals do you expect to achieve, and by when, to know how progress is being made?	STATUS Include summary and date.	Completed	Ongoing	Incomplete	Not Implemented	Replacement	Delayed	Added		
Temperature	1. Solar radiation input	a. Protect and enhance existing shading vegetation	Development code (Subchapter 54) contains riparian setback requirements	Private Development Funds	Enforce code requirements Track the number of violations	Ongoing	Compare aerial photographs at five-year intervals to determine the current state of and changes to riparian areas	Ongoing - No Violations, Riparian protection standards have been enhanced as part of Southwest Concept Plan adopted in June 2012. Aerial photographs taken September 2015.	1	1							
			Provide formal support and recommendations for community riparian tree planting projects	Staff time/resources needed are limited, but tracking better. No budget cuts this year, but no additions in storm system either	Track number of community riparian tree planting projects	Ongoing	Formal support provided for community riparian tree planting projects	Ongoing - New project planned for 2015 along Ash Creek in partnership with Luckiamute Watershed District.	1								
			Add information on shading vegetation and water temperature on City website and City Hall front counter	Staff time: staff has been stabilized in 2014/15 budget	At least one web page with information and one fact sheet at front counter	Ongoing	Materials have been reviewed and selected. Printing has been approved.	Completed, New City Website operational. Public involvement during development and Adoption of Southwest Concept Plan and associated LID standards in June 2012. Info materials approved. Printing completed.	1	1							
			Continue to enhance riparian corridor along proposed Ash Creek Trail	Stormwater Utility Funds/grant	Trees procured and planting areas designated	Ongoing	Planting complete	Ash Creek Trail Project on hold for near future 3-5 years due to lack of funding. Development and Adoption of Southwest Concept Plan and associated LID standards. Ongoing	1	1							
		b. Work with Luckiamute Watershed Council to initiate riparian tree plantings	Contact Luckiamute WC and discuss options	Staff time/minimal resources needed	Meet with Luckiamute WC and come up with list of possible projects	Ongoing	Next project scheduled for fall 2015	This is a large-scale project and has received grant funding. Complete in 2015.	1	1							
			Provide formal support (and resources as available) for watershed council projects	Staff time/minimal resources needed	Track the number of watershed council projects on which the City is a partner	Ongoing	Formal support provided for watershed council projects	Ongoing		1							
	2. Wastewater treatment plant discharge	No discharge between June 1st and October 31st. Maintain effluent low temperatures (monitoring indicates compliance)	Maintain compliance with NPDES permit requirements	Sewer Operations and Maintenance Funds	Monitor effluent and river temperatures as a condition of the DEQ discharge permit which requires twice weekly grab sample	Ongoing	Effluent affects to Willamette River limited	Ongoing, 2015-2016 Discharge Limits remain in place. Facility Planning Update approved. Draft permit renewal under review.	1	1							
	Bacteria	1. Pet and animal waste	Reduce amount of pet waste that is not properly disposed of	Install pet waste stations including bags, education signs, and other information	Park Funds/donations	At least ten pet waste stations installed, and information posted on City's website	Completed	Determine locations and prepare news release to inform residents about new stations	Ongoing. Completed two fenced dog parks with waste stations in 2013. Two additional waste stations installed in 2015.	1	1						
2. Bacteria carried to waterways in storm runoff		a. Treat new development stormwater before discharge	Stormwater Management Plan (City Code Subchapter 55) requires prevention to adverse downstream water quality impacts	Storm Utility Funds/minimal staff time	Enforce code requirements Track the number of violations	Ongoing	Review ordinance and coordinate with Stormwater Management Plan Update	Ongoing. Draft ordinance complete. Stormwater Master Plan Update scheduled for 2018.		1					1		
			Development code (Subchapter 54) contains landscaping requirements	Staff time/minimal resources needed	Enforce code requirements Track the number of violations	On-going	Review ordinance with code enforcement officials	Completed, Ongoing. As of April 2016 No Violation of Development Code.	1	1							
		c. Update Stormwater Management Plan with specifics on water quality considerations and priorities	Update existing Stormwater Management Plan (City Code Subchapter 55) with pollution reduction strategies	Storm Utility Funds/staff time	City Council adopts updated Stormwater Management Plan that includes water quality protection mechanisms	Phase 1 to be completed in 2013, anticipated final update 2015 if budget allows.	Work plan developed for update process. Research water quality consideration and ways to incorporate into plan	Incomplete But Started, Research Begun. Ongoing through 2015. Delayed due to budget. Draft completed. Master Plan Update - 2018.		1						1	
			Create stormwater system map and identify areas where water quality project actions would have the greatest benefit	Storm Utility Funds/staff time	Map produced and incorporated into future planning efforts	Ongoing	Mapping complete. High priority areas identified. Plan and map adopted. Update anticipated in 2018.	System base maps completed		1						1	
d. Prevent dumping into storm drain		Mark storm drains	Storm Utility Funds/staff time	Number of markers installed	Ongoing	Design of markers selected	Completed. Ongoing for new development.	1	1								
3. Wastewater treatment plant discharge		Maintain low bacteria levels in WWTP effluent	Treatment and chlorination in compliance with NPDES permit requirements.	Sewer Operations and Maintenance Funds	Monitor E. coli bacteria levels as condition of NPDES permit. Weekly grab sample.	Ongoing	Effluent effects to Willamette River limited	Ongoing, as of 2015/2016 WWTP is in compliance with Bacteria Standards	1	1							