

POLLUTANT	SOURCE	STRATEGY	ACTIONS	MEASURE	TIMELINE	BENCHMARK
What pollutants the TMDL addresses.	Source of pollutant.	What we are doing and will do to reduce pollution from this source.	Specific ways to implement strategy.	How we will track successful implementation or completion of strategy.	When strategy will begin and be completed.	Intermediate Indicators.
BACTERIA	1. Pet and Animal Waste	Reduce the amount of improperly disposed pet waste.	Work with Benton County Parks to install pet waste stations including bags, educational signs and other information (educational mailer).	At least four pet waste stations installed.	Completed by: January 2010.	Determine locations and prepare news release to inform residents about new stations.
			Enforce existing pet waste pick-up ordinance.	Track the number of citations issued.	Increased enforcement following installation of pet waste stations and news releases. (Detailed above)	Review ordinance and complete pet waste station installation.
	2. Erosion and Sedimentation	a. Decrease sedimentation and erosion from new construction.	Require and monitor 1200-C permits for new large developments and inform single lot developers of erosion control plan. Include fact sheet from DEQ with building permits. Educate developers of less than 1-acre parcels of the importance of meeting 1200-C requirements.	Demonstrate that 100% of new large developments obtain 1200-C permits from DEQ.	Begin immediately and ongoing.	Include 1200-C fact sheets at planning counter. Review number of 1200-C permits issued.
			Include stormwater detention requirements for new development in Code.	Code adopted by City Council and all new developments comply with stormwater detention requirements.	Code adoption to take place in February 2010.	Draft stormwater article and included in draft Development Code.
			Mitigation for trees cut, with public property used for replanting.	Number of trees planted.	Begin in 2010 and ongoing as development dictates.	
		b. Sweep streets and paved parking areas to remove small particles.	Sweep city streets and paved parking lots annually.	Number of times streets and parking lots are swept per year.	In progress and ongoing.	
	3. Stormwater Discharge	a. Increase the detention time and treatment facilities for stormwater to allow for infiltration and sediment deposition.	Include stormwater detention and treatment requirements in Development Code.	Code adopted by City Council and all new developments comply with stormwater and treatment requirements.	Code adoption to take place in February 2010.	Draft stormwater article and include in draft Development Code.
			Work with car wash owners and "charity" car wash participants to install stormwater treatment facilities.	Stormwater treatment facilities installed. For charity car washes, this can be limited to silt control, oil booms, and absorbent pads around catch basins.	Conversations initiated before summer 2010. Facilities installed before summer 2010.	At least two meetings held between Public Works and car wash owners to discuss options. Plans drafted to install facilities.
		b. Raise awareness of actions that individuals can take to minimize stormwater impacts.	Add materials on stormwater to City website and make available at City Hall.	At least five pieces of information provided on website and at least two provided at City Hall.	Begin reviewing existing information immediately.	Materials reviewed and selected. Printing approved.
			Have fact sheets available at the City's planning counter and distribute informational materials on water quality along with development applications.	Copies of at least three fact sheets made available at planning counter.	Begin reviewing existing information immediately. Add materials by the end of 2010.	Materials reviewed and selected. Printing approved.
			Secure funding to expand educational programs, especially stenciling storm drains.	Track the number of educational initiatives undertaken, people reached, and the number of storm drains stenciled.	Identify key educational messages by 7/2010. Implement two initiatives by 12/2010.	Projects identified. Proposals submitted to implement educational activities. Provide storm drain stenciling.

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		c. Develop a Stormwater Master Plan.	Develop a Stormwater Master Plan.	City Council adopts Stormwater Master Plan that includes water quality protection mechanisms.	Not completed during previous cycle. Stormwater Master Plan to be completed with new development; no later than 2018	Work plan developed for update process. Research water quality considerations and ways to incorporate into plan. Draft of updated plan complete.
			Create stormwater system map and identify areas where water quality protection actions would have the greatest benefit.	Map produced and incorporated into future planning efforts.	Map produced by 1/2012. Priority areas to be identified on on-going basis.	Mapping complete. High priority areas identified. Plan and map adopted.
		d. Develop Stormwater System Development Charge.	Develop Stormwater System Development Charge.	City Council passes Stormwater System Development Charge Resolution.	SDC adopted in 2008.	Draft SDC ordinance complete.
	4. Wastewater Treatment Plant	Maintain effluent low bacterial levels (monitoring indicates compliance).	Maintain compliance with NPDES permit requirements.	Monitor effluent and river temperatures as a condition of DEQ discharge permit.	In progress and ongoing.	Undertake annual reporting process. Permit requirements will show that effluent does not affect bacteria levels in river.
	5. Illegal Discharge	a. Provide porta potties in parks with no facilities during activities and during other public events to minimize improper human waste disposal.	Provide porta potties during Founders Day event and community youth programs.	Major public events all have restroom facilities available.	Ongoing.	Identify events requiring facilities. Founders Day Event
		b. Eliminate the dumping of waste of any kind into the drainage system or waterways.	Maintain and enforce an illegal dumping ordinance.	Monitor enforcement or observed evidence of violations.	Ongoing	Review ordinance and enforcement effectiveness.
MERCURY	1. Natural background in soil and rock	Decrease soil disturbance in areas sensitive to erosion.	Ensure compliance with Section 4.2.500(B) which requires that steep slopes and unstable soils are identified in development applications and all plans and calculations are signed by Engineer.	100% of applications include site maps that show steep slopes.	In progress and ongoing.	Review code requirements annually and consider strengthening steep slope limitations.
	2. Municipal Services	a. Minimize the use of chemicals in maintenance operations.	Implement policies to reduce quantities of applied chemicals.	Chemical application performed in accordance with applicable laws by certified sprayers.	Ongoing.	Develop plan to reduce chemical use in city environmental operations.
		b. Decrease atmospheric emissions from city-owned vehicles.	Incorporate energy-efficient vehicles into the transportation fleet.	Vehicles meet DMV requirements for vehicle emissions.	Ongoing.	
	3. Erosion and Sedimentation	a. Decrease sedimentation and erosion from new construction.	Require and monitor 1200-C permits for new large developments.	Demonstrate that 100% of new developments over one acre obtain 1200-C permits from DEQ.	Begin immediately and ongoing.	Include 1200-C fact sheets at planning counter. Review number of 1200-C permits issued.
		b. Sweep streets and paved parking areas to remove small particles.	Sweep city streets and paved parking lots annually.	Number of times streets and parking lots are swept per year.	In progress and ongoing.	
	4. Air Deposition	Prevent erosion and reduce the amount of stormwater discharged.	Pursue strategies outlined above that address erosion and stormwater management.	Meet specific strategy completion measures.	Follow timelines of specific strategy.	Meet specific strategy benchmarks.

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	5. Stormwater Discharge	d. Develop Stormwater System Development Charge.	Develop Stormwater System Development Charge.	City Council passes Stormwater System Development Charge Resolution.	SDC adopted in 2008.	Draft SDC ordinance complete.
TEMPERATURE	1. Solar Radiation Input	a. Work with ODF and/or local watershed councils to purchase and plant trees.	Adopt new code, enforce code requirements, track the number of violations and how violations were resolved.	Monitor new growth in riparian areas by visiting planting sites regularly.	At least one riparian tree planting project completed every two years. Formal support provided for watershed council projects.	Agreement between ODF and the City on planting plan. Trees secured and planting scheduled.
		b. Protect and enhance existing riparian vegetation by initiating riparian tree plantings.	Comprehensive Plan contains riparian setback requirements.	Adopt new code, enforce code requirements, track the number of violations and how violations were resolved.	Begin immediately and ongoing.	Compare aerial photographs at five-year intervals to determine the state of and changes to riparian areas.
		c. Protect existing tree canopy.	Develop tree protection ordinance that protects existing trees within the city.	Ordinance adopted.	Ordinance adopted: 2010. ORD2010-005 Article 7.100	Draft of tree protection ordinance completed.
		d. Wetland brochure to send to new move-ins adjacent to wetlands.	Create an educational brochure and put process in place for distribution to new move-ins. Partner with neighborhood group. Hold meetings in neighborhoods of homeowners with wetlands.	Brochure printed and staff process in place for distributing. At least one neighborhood meeting held.	Begin 2009. Completed 2010.	Brochure available. Presentation created.
	2. Wastewater Treatment Plant Discharge	a. Maintain effluent low temperatures.	Maintain compliance with NPDES permit requirements.	Monitor effluent and river temperatures as a condition of DEQ discharge permit.	In progress and ongoing.	Meet all regulations.
		b. Divert some wastewater effluent from being discharged in surface water.	Use wastewater effluent for irrigation and dust control at dump.	Monitor the amount of wastewater used for irrigation and dust control.	In progress and ongoing. Diversion for irrigation is approved but has not been implemented.	Provide summary report on the amount of treated effluent diverted.
		Educate local policy makers, city employees, and the public about city plans and methods for public engagement.	a. Review TMDL plans, annual reports, and 5 year reports with the City Council.	Track frequency that TMDL plans or water quality issues are discussed by City Council.	Ongoing	Meetings scheduled and held.
			b. Train employees about the importance of maintenance and construction practices for protecting water quality.	All public works employees receive continuing education through annual attendance at Public Works Continuing Education Forum.	Ongoing	Training materials/resources available for employees.
c. Create mailing list to improve education, outreach, and public involvement.			List created. Individual designated to periodically maintain list.	In progress and ongoing.	List created.	
Protect headwaters, riparian corridors, and groundwater sources.		Adopt wetland protection ordinance that prevents development in significant wetland or riparian areas without a permit.	Wetland protection ordinance adopted.	Ordinance adopted: 2010. ORD2010-005 Article 7.100	Draft wetland protection ordinance complete.	

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ALL POLLUTANTS		Minimize the impact of land development on the health of nearby riparian zones.	Establish Low Impact Development ordinance that preserves natural riparian zones.	Low Impact Development ordinance adopted.	No city ordinance. Incorporated into revised Land Use Development Code.	Draft Low Impact Development ordinance complete.
		Confirm funding strategy for TMDL plan implementation.	Develop a funding strategy that provides sufficient resources to successfully implement TMDL plan.	Funding strategy adopted.	Funding strategy approved: 2009. Resolution: 2009 #10	Identify funding needs for successful plan implementation.
		Promote riparian protection on private property.	Ensure that new development is in compliance with land use development requirements for riparian protection.	All new development in compliance with regulations.	Ongoing	
		Make the TMDL implementation plan available for public review and comments.	Increase public access and involvement with the TMDL plan by making it available to the public at City Hall.	Copy of plan printed and available at City Hall.	Plan available in City Hall: 2009	Copies of TMDL plan printed.
		Adopt stormwater best management practices for water quality.	Review of Albany' and Eugene's version by staff and consulting engineer. Revise if necessary. Hold public hearings with Planning Commission and City Council. Council adoption.	Best managements practices adopted.	Completion approximately 2012.	Review existing manuals by staff. Adoption of the manual.
		Minimize the impact of land development on the existing site hydrology.	Development and implementation of post-construction ordinance for meeting pre-development hydrology.	Require new development to comply with state and federal requirements.	No city ordinance. Require compliance with state and federal laws on ongoing basis.	Draft of ordinance complete.