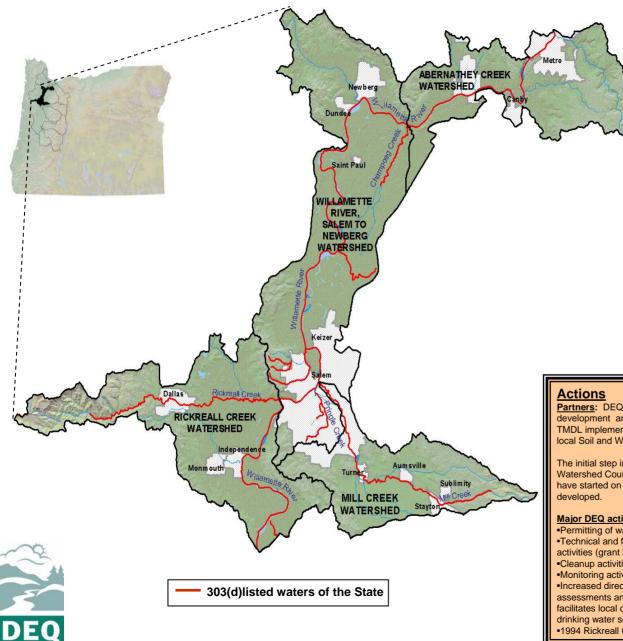
### Total Maximum Daily Loads (TMDLs) - Implementation

# Middle Willamette Subbasin Water Quality Overview



# Issues

The Oregon Department of Environmental Quality (DEQ) has established TMDLs to address elevated temperature. bacteria, and mercury levels throughout the Middle Willamette Subbasin.

Temperature: Waters in the Middle Willamette Subbasin are warmer than is necessary to protect salmonid rearing and spawning. Lack of riparian vegetation and impacts from dams and water withdrawals are the major contributors to high river temperatures.

Bacteria: People can become sick if they ingest water that is contaminated with bacteria when they are swimming, recreating or in contact with the water. Both urban and rural/agricultural sources are major contributors to the high bacteria levels found in many of the rivers of the Middle Willamette Subbasin.

Mercury: The Willamette has fish consumption advisories due to elevated levels of mercury found in some fish species. The Middle Willamette Subbasin will be addressed as part of a basin-wide strategy for mercury. General sources include permitted sources, air deposition, and erosion of soils which contain mercury from natural and anthropogenic sources.

Other Pollutants of Concern: Additional parameters and streams have been added to the 303(d) list in 2002 in the Middle Willamette Subbasin which are not addressed by this TMDL. These pollutants are PCBs, Aldrin, Dieldrin, DDT and its metabolites, iron, copper, lead and zinc. DEQ will address these pollutants in future updates of the TMDL. While dieldrin is not covered in the TMDL, a discussion paper on the current condition and the toxicity of dieldrin in Salem area streams is included in the TMDL. Other concerns in the subbasin include sedimentation and loss of fish habitat.

Partners: DEQ has been working with a variety of partners during TMDL development and will continue to work with a wide variety of partners for successful TMDL implementation. These partners include cities, counties, Watershed Councils, local Soil and Water Conservation Districts (SWCDs), and state and federal agencies.

The initial step in successful watershed restoration is implementation planning. Many Watershed Councils have developed or are developing their watershed plans and have started on implementation. Initial SB 1010 plans for agricultural lands have been

## Maior DEQ activities include:

•Permitting of waste water discharges, including storm water;

•Technical and financial assistance for source identification and implementation activities (grant and loan funding);

Cleanup activities:

 Monitoring activities, to include assistance to volunteer monitoring efforts; Increased direct technical assistance to communities that choose to move beyond the assessments and develop a Drinking Water Protection Plan. Developing a plan facilitates local decision making as the community determines how to protect their own drinking water sources; and

1994 Rickreall Creek TMDL for Biological Oxygen Demand (BOD).

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