

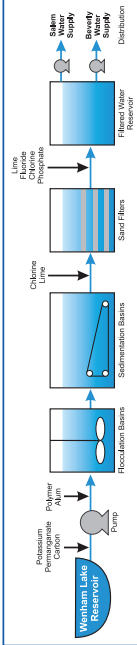
Nonpoint continued

construction, and septic systems are all potential sources of nonpoint contaminants. Household contributors include improperly disposed pet waste, lawn fertilizer, paints, and motor oil. Automobiles, factories, and wood lots can also contribute pollutants directly to the earth in the form of rain or snow. The amount of these contaminants that reaches water sources is increased by impermeable surfaces, such as roofs and pavements, which keep the soils from naturally filtering stormwater.

The Cities of Salem and Beverly are in the process of implementing Stormwater Management Plans (SWMP) designed to reduce stormwater runoff pollution and protect your source and surface waters. Public education and participation are required critical measures for the SWMP.



Water Treatment and Distribution



Water from the Ipswich River and the three reservoirs goes to a water filtration plant, operated 24 hours a day, 7 days a week by the Board. The plant removes naturally occurring impurities, as required by federal regulations and good public health practices, and delivers the water to pumping stations owned by the cities of Salem and Beverly. The water then flows to your home in pipes owned and maintained by each city water department.

Before water enters the filtered water reservoir that provides the pumping stations, it is fluoridated. Fluoride is added to prevent tooth decay/cavities. To improve corrosion control in the distribution pipes, the Board has modified existing treatment by switching to a new phosphate additive that is designed to optimize corrosion control throughout the distribution system and minimize dissolved lead in the pipes and household plumbing.

Massachusetts Source Water Assessment and Protection (SWAP) Program

The **Source Water Assessment and Protection (SWAP) Program** assesses the susceptibility of public water supplies to contamination due to land uses and activities within the recharge area of the water supply. The program also assesses the poor water quality in the future. It only draws attention to the various surface water from Wenham Lake (Source ID #3030001-015), Longham Reservoir (Source ID #3030001-025), Putnamville Reservoir (Source ID #3030001-035) and the Ipswich River (Source ID #3030001-045).

A susceptibility ranking of high was assigned to this system using the information collected during the assessment. The ranking is given to any water supply that has at least one high threat within the water supply protection area. Since there are seventeen high threat land uses within the protection area the Salem and Beverly water supply must be assigned a high threat ranking. The high threat land uses are: manure storage or spreading, pesticide storage or use, airports, body shops, gas stations, service stations/auto repair shops, bus and truck terminals, dry cleaners, photo processors, repair shops, and other businesses that use hazardous materials storage, machine/metalworking shops, RCRA TSD facilities, large quantity

If you would like more information, the complete SWAP report is available at the Salem and Beverly Water Supply Board website: www.salembeverlywater.com/departments/drinking/3030001.pdf. You can also call the Salem and Beverly Water Supply Board at 978-922-2600.

Salem and Beverly Water Supply Board 2010 Water Quality Report

Public Water Supply ID # 3030001

2010 Water Quality Report

This report describes the Salem and Beverly Water Supply Board's (the Board) drinking water sources and treated water quality for 2010.

This publication is mandated by the federal public right-to-know law, the Safe Drinking Water Act, which requires water suppliers to provide specific treated water quality information annually to customers.

This report includes additional information beyond the minimum federal requirements as part of our public awareness of your drinking water and protection of this valuable resource.

For More Information...

About contaminants and potential health effects, please call the EPA's Safe Drinking Water Hotline at 800-426-4791 or visit www.epa.gov/salembeverly.

About the Salem and Beverly Water Supply Board (PWS ID #3030001)

For more information on water quality, please call Thomas Knowlton, Superintendent, at 978-922-2600. The Board meets at the Ipswich River Plant, 50, Atlantic Avenue, Beverly, MA. The Board usually meets on Tuesday after the first Monday of each month, but please call to confirm.

Notices of these meetings are posted in the Beverly and Salem City Halls.

About your water distribution system, please contact the appropriate department in your city:

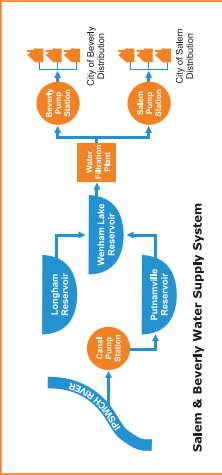
Salem Water Department
(PWS ID #3258000)
phone: 978-745-9955

Beverly Water Department
(PWS ID #3030001)
phone: 978-921-6000

Sources of Your Drinking Water

Salem and Beverly use approximately 3.5 billion gallons of drinking water per year. This water is drawn from the Ipswich River and three reservoirs: Wenham Lake Reservoir, Putnamville Reservoir and Longham Reservoir. Beverly's water mains have interconnections with Wenham, Danvers, and Manchester. Salem's water mains have interconnections with Marblehead and Peabody.

The Board recognized the practical and ecological importance of storing high winter and spring flows of the Ipswich River for use in summer when river flows are naturally low. During winter and spring, water is pumped from the Ipswich River to Putnamville Reservoir and/or Wenham Lake Reservoir for storage and use in summer. Water is not pumped from the river during summer. Similarly, Longham Reservoir augments Wenham Lake Reservoir.



Nonpoint Source Pollution

The US Environmental Protection Agency (EPA) Phase II Stormwater regulations require all communities with populations under 100,000 to implement control measures aimed at reducing water pollution caused by stormwater runoff. Stormwater runoff is a major cause of nonpoint source (NPS) pollution.

Approximately 40 percent of America's surveyed lakes, rivers, and estuaries fail to meet standards for safe fishing or swimming. According to the EPA, NPS pollution constitutes the nation's largest source of water quality problems.

NPS pollution occurs when runoff (rainwater or snowmelt) moves over the land picking up sediments and contaminants and then deposits them into lakes, rivers and coastal waters. Overland flow picks up pollutants from driveways, crops, industrial sites, or malfunctioning septic systems before discharging into the river or storm drain.

NPS pollution can lead to beach closures, fish kills, habitat destruction, and unsafe drinking water. Unlike point sources (e.g., discharge pipes from facilities) nonpoint sources are diffuse, which makes them difficult to trace and control.

Everyone contributes to NPS pollution in one way or another. Land use such as agriculture, forestry,

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Salem & Beverly Water Supply Board
50 Arlington Avenue
Beverly, MA 01915

POSTAL PATRON

Salem and Beverly Water Supply Board 2010 Water Quality Report

En Español: El informe contiene información importante sobre la calidad del agua en su comunidad. Tradúzcelo o hable con alguien que lo entienda bien.
En Français: Le rapport contient des informations concernant la qualité de l'eau de votre communauté. Faites-le traduire, ou parlez-en à un ami qui le comprend bien.

