## CASE STUDY

## H-20 Chambers Used in Town's WWTP Dispersal Field

Hopkinton, MA

SYSTEM SPECIFICATIONS

Disposal field for 350,000 GPD wastewater treatment plant

**INSTALLATION DATE** Winter 2011

PRODUCTS Infiltrator High Capacity H-20 Chambers OWNER

Town of Hopkinton, MA

**ENGINEER AECOM**, Wakefield, MA

INSTALLER Waterline Industries, Seabrook, NH

## DESCRIPTION

The Town of Hopkinton, MA, had a municipal sewer system that sent wastewater to two neighboring towns for treatment. As these neighboring facilities reached their discharge limits, the Town of Hopkington was faced with the challenge of developing their own wastewater treatment plant.

About 10 years earlier the Town of Hopkinton had purchased 255 acres of land for conservation, passive and active open space, and other municipal purposes. A concept Master Plan was developed and approved at the Annual Town Meeting on May 5, 2003. The Master Plan, including development of a town-owned well and a wastewater treatment facility received approval under the Massachusetts Environmental Policy Act (MEPA). Construction of the wastewater treatment facility was delayed until 2010 due to appeals at the local, state and federal levels.

Due to the proximity to natural wetlands, the space available for the system was very small and constrained. Although the actual site for the wastewater treatment plant has good soils, the surrounding areas have very poor soils. This made a highly efficient infiltration system composed of chambers a good option. Another challenge solved by the infiltration system was that it could fit into a constrained and irregular two acre site.

A 350,000 GPD membrane treatment plant was designed to treat the wastewater received from a conventional sewer. The treatment plant receives the flow and treats the effluent before the treated effluent is pumped to an onsite disposal system that includes 4,532 Infiltrator H-20 Chambers in a series of beds. Following treatment, the water is dispersed to replenish local groundwater aquifers.



The installation of the treatment building and infiltration bed proceeded rapidly and efficiently during the winter of 2011. A majority of the construction was completed prior to the major snowstorms that hit the area. Construction was able to continue on the treatment building because it was covered from the elements. This project was partially funded by the American Recovery and Reinvestment Act.



**IWTCS-CHAMBERS-0111** 

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