

Babylon, NY Retrofits 96 Outfall Pipes with AbTech Stormwater Treatment Vaults

Project Background

The Village of Babylon, located on the southern coast of Long Island, is deploying AbTech Industries' solutions to protect the Great South Bay and the nearby Long Island Sound. The project began in 2008, when Babylon announced its plans to retrofit 96 outfall pipes with AbTech's stormwater treatment systems, utilizing a matching grant of \$310,000 provided by Suffolk County once testing was complete.

AbTech Industries, with the help of their engineering team, utilized their Smart Sponge® technology to assist the Village of Babylon in protecting the local waterways with a cost-effective and environment-friendly option.



Project Description

The Village of Babylon is deploying 96 AbTech stormwater treatment installations to protect the Long Island Sound. AbTech's stormwater outfall pipe systems are retrofitted into existing stormwater infrastructure to provide a cost-effective means of treating contaminated water prior to discharge into bodies of water. Stormwater outfall pipes in the Village of Babylon have been upgraded to include AbTech treatment systems that filter the contaminated water through AbTech's patented Smart Sponge® technology.

The systems require no electricity and minimal maintenance, and are effective at removing over 85 percent of toxic hydrocarbons from stormwater, in addition to sediment, heavy metals and other harmful pollutants. Once absorbed, hydrocarbons are permanently bound to the Smart Sponge® polymer and cannot be leached away. Spent Smart Sponge® material can be landfilled or burned as a high BTU, low emissions fuel source.

Project Results

AbTech recently announced the results of the five-year study that exploring the efficacy of AbTech's proprietary Smart Sponge® filtration technology in preventing stormwater contamination of The Great South Bay and the nearby Long Island Sound. The installations were recently reviewed and it was found that there had been no blockages or maintenance concerns and that the systems had effectively trapped the contaminants they were designed to capture.

The study, which analyzed the contents of AbTech's Smart Pak® cartridges from two outfall pipe installations located at Green and Alexander Avenues, found that Babylon's existing installations captured approximately 1,600 pounds of total contaminants from stormwater annually, including 1,400 pounds of toxic hydrocarbons. It is expected that once all 96 installations are complete, collectively more than 8,000 pounds of contaminants, including 7,000 pounds of toxic hydrocarbons will be prevented from entering The Great South Bay annually.



About AbTech Industries

AbTech Industries, Inc. is an environmental technologies firm dedicated to providing innovative solutions to communities, industry and governments addressing issues of water pollution and contamination. Its products are based on polymer technologies capable of removing hydrocarbons, sediment and other foreign elements in still or flowing water. In addition, Smart Sponge® Plus (EPA Registration #86256-1) reduces coliform bacteria found in stormwater, industrial wastewater and municipal wastewater. The company holds 17 patents, and has products utilized in over 15,000 applications in 36 states.

AbTech offers proprietary polymer technology unique in its ability to remove, absorb, and retain hydrocarbons from flowing or pooled water. AbTech's Ultra Urban® Filter series with Smart Sponge® technology is listed by the EPA as a Best Management Practice (BMP) under federal guidelines. AbTech's filtration systems are economical, adaptable, install quickly and require minimal maintenance.

What Others are Saying about the Project

"Untreated stormwater runoff is the single greatest source of water pollution in the United States, and the Great South Bay has been particularly affected with the intense development of Long Island. Municipalities are at the heart of the fight to preserve water resources for future generations and Babylon has set the bar for cities nationwide in reducing the runoff of fertilizers, pesticides, pathogens, and petroleum products."

Robert F. Kennedy, Jr., President of the Waterkeeper Alliance

"When we set our stormwater management plan in motion, we hoped it would serve as an attainable model for our neighbors throughout Suffolk County, but after seeing these results, we are confident that our model will be employed throughout the country."

Ralph Scordino, Village of Babylon Mayor

"Babylon's stormwater initiative is a perfect example of the progressive thinking that has made Suffolk County one of the best places to live, work and play in the nation. Our political leaders are constantly pushing the envelope to get the job done for taxpayers through innovative and cost-efficient ways."

Steven Bellone, Suffolk County Executive

For more information about the Smart Sponge® technology,
visit www.abtechindustries.com or call 800.625.ABTECH

Please keep in mind that, depending upon local conditions, product use, and exposure, a spent Smart Sponge® product could contain one or more of a wide range of contaminants that may impact available disposal options. As a result, generators of spent Smart Sponge® products must have their waste analyzed, tested, and classified to determine the appropriate disposal method. AbTech Industries does not take any responsibility for handling, transport, disposal, or recycling of spent Smart Sponge® products. For a more detailed disposal/reuse overview, please see the "Smart Sponge® Products Disposal Option" documents available upon request from AbTech Industries. AbTech Smart Sponge® products have been extensively tested both in the laboratory and in the field – with additional testing on-going all the time. Nevertheless, because local conditions, product use, and exposure can vary widely, individual results may differ. AbTech Smart Sponge® products must be used properly and in accordance with all manufacturer instructions. AbTech Industries does not take responsibility for any product misuse