

Filtration Media

Case Study: A low initial cost high efficient solution to odor control in Austin, Texas

Project Name: Montopolis Odor Control Improvements and Lift Station Demo
C.I.P. No. 4570-2307-8932
Austin, Texas

Owner: City of Austin
Austin, Texas

Date of Completion: February 11, 2009

General Contractor: Excel Construction

System Supplier: Bay Products, Inc.
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Manufacturing Facility: Belton, Texas

Engineering Problem: A wastewater conveyance tunnel in a low lying park and recreation area had developed noxious odors. These odors interfered not only with the users of the city park itself, but also residential neighborhoods and a community college nearby. The City of Austin was looking for a low-cost highly effective solution to reduce or eliminate this problem.

Solution: After Bay Products evaluated the problem at the site, the solution involved the development of a biological system that would provide the required odor treatment while



meeting budget constraints. Bay Products is the largest odor control supplier in North America and carries a full line of odor control system such as carbon adsorbers, chemical scrubbers, and a full line of biological systems.

The supplied biological system involved a low-cost system that effectively pulls foul air from odor source. The media selected for the system was expanded shale. This vitreous and porous media is manufactured by the rotary-kiln process at the TXI Expanded Shale facility in Streetman, Texas. Expanded shale exhibited outstanding corrosion resistance and effective odor-

eating bacteria growing surfaces due to the media's porosity and surface characteristics. Bay Products found that the media absorbed and retained liquid compounds at rates conducive to the proprietary process used by Bay Products during media preparation at their Texas facility.