

CASE STUDY FOR

LOUISVILLE METROPOLITAN SEWER DISTRICT



PURAFIL PROVIDES SUPERIOR ODOR CONTROL FOR AN EXISTING WET WELL



ABOUT THE LOUISVILLE METROPOLITAN SEWER DISTRICT

The Louisville and Jefferson County Metropolitan Sewer District (MSD) provides flood control and sewage systems for Louisville, KY (Jefferson county). MSD presently serves more than 600,000 people in this booming area of Kentucky. Forest Springs is a family oriented neighborhood of almost 600 homes in eastern Jefferson, and is served by the MSD sewer system. The neighborhood is known for its beautiful and peaceful surroundings, as well as its convenient and easy access to metropolitan Louisville.

THE PROBLEM

In 2008, residents started complaining about bad odors at the end of a street in the Forest Springs neighborhood. MSD launched an investigation and found that the odors were caused by hydrogen sulfide buildup in the sewer upstream of a pump station. The buildup gases were released at a wet well connected to the pump station, as well as a manhole next to the Forest Springs neighborhood. Louisville MSD contacted odor control consultants to provide the best solution to the issue.

PURAFIL PROVIDES THE SOLUTION

The project engineers designed an odor control system that included a carbon-based filtration installation at the wet well. MSD requested quotes from four different

manufacturers. Based on a cost analysis of the submitted quotes, MSD chose Purafil's system. Purafil Engineers and Purafil's representatives, J. Dwight Thompson Company recommended the DS-300 drum scrubber with an adjustable damper and a mist eliminator. The scrubber was filled with beds of Odorcarb™ Ultra media and Odormix™ SP and removed all odors released at the wet well.



PURAFIL® DRUM SCRUBBER (DS) 300 REMOVED THE BAD ODORS RELEASED BY THE WET WELL



PURAFIL® ODORMIX™ SP

PURAFIL® ODORCARB™ ULTRA

CUSTOMER SATISFACTION

Louisville MSD's project engineers teamed up with Purafil to develop a system that met the neighborhood's needs for a very competitive cost. As a result of the scrubber's installation, the odors are no longer causing problems. Purafil media is generally landfill disposable and environmentally friendly. New media can be ordered and shipped, typically within one week. Since the initial installation, the media inside the drum scrubber hasn't been replaced and no more complaints of bad odors have been reported from the Forest Springs neighborhood.

COMPLIMENTARY SERVICES

Purafil offers complimentary Media Life Analysis (MLA). In order to prevent gas breakthrough or unnecessary media replacement costs, periodic sampling of the media is essential. Purafil's local representative regularly takes media samples from installations and sends the samples to Purafil. Laboratory technicians analyze the media and send a certificate of analysis that provides the media's projected service life.

