

# Mt. Vernon, Washington

## Weholite for WWTP



The City of Mount Vernon has made major upgrades to its wastewater treatment plant (WWTP). The primary purpose of this work was to prevent combined sewer overflows from entering the nearby Skagit River, during heavy rainfall.

Reduction in sewer overflow improves the water quality to the population and also meets the requirements of the Washington State Department of Ecology consent decree. Adding to the positive environmental impact, the upgrade also changes the method of disinfection and odour control from the use of gaseous chlorine to a more environmentally benign process. The odour control system takes foul air from the trickling filters and conveys it through 48" HDPE Weholite pipe into a fan room. From the fan room, the foul air is distributed again through Weholite pipe into a filter medium, designed to remove the odour causing constituents without the use of chlorine.

A total of 700' of Weholite pipe, ranging from 24" to 48", was used for this project. Four headers, as seen in the picture above, were installed to accommodate the dispersion of the foul air into the bio-medium.

In addition to the environmental advantages, the upgrade increases the capacity of the plant, thereby meeting the growth needs of the city for years to come.



*Weholite header where pipe enters fan room.*

**Project:**  
Wastewater Treatment Plant upgrade

**Owner:**  
City of Mount Vernon, WA

**Application:**  
Biofilter Piping System

**Consultant:**  
HDR Engineering Inc.

**Contractor:**  
McClure and Sons Inc.