

**MASSAPONAX WWTP CARBON ADSORBER
PERFORMANCE TESTING
FREDERICKSBURG, VA**

WEA conducted independent performance testing on a newly installed 8,000 cfm carbon adsorber system at the Massaponax WWTP in 2002 for H.E. Sargent, Inc. The carbon adsorber system was installed to treat odors from the headworks area of the newly expanded treatment plant. The performance testing was conducted according to the odor control system construction specifications and included continuous and instantaneous measurement of inlet and outlet H₂S concentrations under several inlet conditions. An H₂S cylinder was used to provide various inlet concentrations for the performance testing. The testing was witnessed by the system supplier and the project engineer. A report was submitted detailing the testing procedures and the results of the testing. The system met the H₂S removal efficiency requirements under each of the testing conditions.

**FINAL PROJECT
SCORECARD**

- Odor control system performance tested per specifications**
- Documented 99% H₂S removal efficiency under multiple operating conditions**
- Documented the system passed the specified performance test**



**Carbon Adsorber
(8,000 cfm)**

H₂S Injection Point