



Case Study # 302

A number of sources in the wastewater treatment process such as the headworks, aeration tanks, settling tanks and dewatering press can produce high-intensity odors from gaseous sulfide emissions. The most common sulfides are hydrogen sulfide (H₂S) and methyl mercaptan (CH₃SH.)

The highlighted installation was for a major municipality in the southeast and utilizes our new high efficiency 3-K Tellerette® Packing. This design operates at a velocity over 600 fpm or 20% higher than traditional designs. This enabled us to reduce the tower diameter saving space and reducing pumping requirements. Full scale performance tests confirmed the high removal efficiency at the increased velocity. The system also utilizes our high efficiency, backward curved CLUB series FRP fans.

Product Literature: (click on links to take you to the literature)

[SPT Bulletin 12-2](#)

[No. 3-K Tellerette Curve 12-10.14](#)

[CLUB Fan Bulletin 11-4](#)

3-K-Series Tellerette® Packing for HCl removal in a Crossflow Scrubber



Application	Odor Control
Exhaust Volume	10,000 ACFM
Exhaust Temperature	Ambient
Contaminant	Hydrogen Chloride
Removal Efficiency	95% required 98% achieved
Scrubbing Solution	Dilute NaOH
Pressure Drop	0.1 - .45 in/ft.
Materials of Construction	Polypropylene