

CASE STUDY

Packed Bed System (PBS)

Ankeny Wastewater Pump Station –
Odor Treatment System Rehabilitation



THE PROBLEM

The City of Portland, Oregon, needed a solution to manage wastewater odor in its bustling downtown park, which hosts events year-round. Odor control was a top priority, but the project was made more challenging by the system's location – directly beneath the park and accessible only through a small hatch – creating significant installation obstacles.

Previously installed systems had failed to trap odors, leading the City of Portland to enlist PureAir to undertake their unique odor control needs. This project presented a unique challenge due to the system's location and the need for extensive customization.



THE SOLUTION

PureAir met this challenge by designing and constructing two Packed Bed System (PBS-709) units to treat a total max airflow of 7,500 CFM (1,875 CFM per unit) of foul air. Each unit was filled with CPS Blend chemisorbent media to ensure optimal performance.

Once completed, each system was meticulously cut into 12 precise pieces and transported via flatbed trailer to Portland, Oregon. Each piece was carefully lowered by crane through the 4x6-foot ground hatch, maneuvered sideways down a narrow corridor, and reassembled in the vault area. Even the slightest miscalculation could have prevented the pieces from fitting through the hatch or corridor, making assembly impossible. The installation demanded a highly coordinated effort from a team of skilled technicians, riggers, and the PureAir Team, that worked for over two weeks to complete the intricate reassembly process.

Since both systems have been installed, the City of Portland has been extremely satisfied with system performance and the downtown park continues to host events without odor complaints.