

THE GOAL: ODOR-FREE WASTEWATER TREATMENT

CCMUA's Delaware No. 1 Water Pollution Control Facility is located in Camden City's Waterfront South neighborhood. From this central location, the geographic low-point of Camden County, the CCMUA treats all of the wastewater generated in the region before releasing cleaned effluent into the Delaware River, thus reconnecting it with the region's water cycle. The centralization of treatment operations can produce unpleasant odors as a byproduct, and these odors pose their greatest nuisance to the CCMUA's closest neighbors. Minimizing odor emissions and impacting our neighbors as little as possible is a core part of the CCMUA's mission.



The CCMUA has made significant strides in eliminating persistent odors with sludge digestion, operational practices and biofilter air treatment systems. However, odor events still occur from time to time. To better understand when and how these odors occur and how best to prevent them, the CCMUA has installed a real-time odor monitoring system.



A NEW TOOL: ODOR SENSORS

- CCMUA has enlisted the firm Envirosuite to install four “eNose” odor sensors at strategic locations around the facility
- Each eNose can detect even very small traces of compounds commonly emitted by wastewater facilities that can generate odors, such as hydrogen sulfide and ammonia
- Data is also collected at a weather station centralized between the sensors. This helps the CCMUA to understand how temperature, wind direction, humidity, and other factors influence odor
- Data from these sensors are transmitted in real time to Envirosuite's monitoring platform, where CCMUA staff can use them to track and analyze odors and identify the best solutions to reach zero odor emissions

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