



Case Study Category: REWW

Case Study Title: Siphon / Air Jumper Evaluation for Orange County Sanitation District

Utility Name: Orange County Sanitation District

Case Study Abstract: Orange County Sanitation District (OCSD) manages a large sanitation system, and they consider odor complaints from its customers very seriously. With an extensive system containing 87 siphons, many of them without air jumpers, odor complaints are likely to happen. OCSD hired a consultant to determine whether the field conditions of siphons comply with ventilation requirements, and determine the possible need for upsizing existing air jumpers or to construct new ones. This case study is about the findings of the ventilation adequacy. The first finding in the consultant study is that there is virtually no developed method for sizing air jumper pipes, beyond some general 'rules of thumb'. This case study includes a simplified description of a rational method for sizing air jumpers based on the consultant's findings.

Case Study Link: <http://waterid.org/content/orange-county-sanitation-district-siphons-and-air-jumpers-evaluation>