



360PRO™

PROJECT CASE STUDY

CLIENT: WATER & WASTEWATER AUTHORITY

COMPLETED DATE: 2021

“Using 3D scanning professionals with expertise of large-scale projects paid off for this client. It was a complex project combining the data from different technologies, but the resulting model and tours were easy to access and used constantly.”

Jeff Meredith, VTS Project Director

WASTEWATER UTILITY IMPROVES EFFICIENCY & REDUCES COSTS

SITUATION

One of the largest wastewater & stormwater containment facilities in North America serves 4M customers and covers over 3M square feet. The high security facility needed to reduce costly site visits by vendors. Digital twin & 3D models enabled virtual walkthroughs & minimized risk while reducing the cost of construction & maintenance bids.



CHALLENGE

Constant maintenance and services are needed throughout the facilities for repairing and maintaining systems. Protocols for vendor access to visit sites to gather information for bids was costly and time consuming, shutting down and cleaning prior to vendor walk throughs. This process cost hundreds of thousands of dollars and diverted resources and manpower away from the primary goal of running the facilities.

The VTS 360Pro team determined that two types of capture technology were needed to accommodate the range of vendors that needed access. Engineering firms required detail data of the above and underground facilities with precision dimensions and measurements. Multiple technologies were required including 3D scanners, drones and lidar scanners. The data was delivered in ReCap®, an Autodesk® format widely used by Engineering firms.

WIN

3D models avoided hundreds of thousands of dollars in shutdowns when vendors needed site access to bid. The bidding process saved the facility valuable time while reducing risk. Digital documentation and access provided a high level of value inside the life cycle of this stormwater facility and enabled a new level of external vendor management.

The data was used internally to update asset inventory records and identify chambers and areas that needed attention. Design and construction firms use it for clash detection, design, simulations and installation planning without interfering with day-to-day operations.

