



COLLINS PARK IMPROVEMENTS

QUARTERLY UPDATE

New Power System Installation in Progress

Contractors are on-site at the Collins Park Water Treatment Plant to install a new power system to modernize and upgrade electrical service throughout the plant. These electrical upgrades will add a redundant power distribution system within the plant for improved reliability, increase system capacity for future improvements and improve safety for operations. The \$27 million project includes electrical equipment replacements and the installation of a new plant substation, High Service Pumping Station switchgear, transformers and plant power loop. The project is estimated to be complete in 2019.

Construction Underway at Low Service Pumping Station

The Low Service Pumping Station is an essential component of the water treatment works of the City. This is where the treatment process begins, as activated carbon and potassium permanganate are added to raw water as it is drawn into the system from Lake Erie. It is then pumped to Collins Park for further treatment. Mechanical improvements that are a part of this project include new traveling screens for removal of debris, new electrical substation, switchgear, pumps, variable speed motors and standby generators. Crews will also restore building masonry, install a new roof, replace windows and doors and install security upgrades. Estimated to be complete in April 2018, these improvements will significantly improve the long-term efficiency and reliability of the Low Service Pumping Station.

Harmful Algal Bloom (HAB) Projections Released

The National Oceanic and Atmospheric Administration (NOAA) is now releasing projections for the 2017 HAB season in Lake Erie. Bulletins are issued regularly to provide early warning of HAB activity to water treatment facility operators and other public entities. Collins Park operators continuously monitor raw water quality and test for microcystin every day throughout algae season. Initial improvements to remove HAB toxins included upgrades to the potassium permanganate and powdered-activated carbon feed systems that were completed at Low Service in 2015. These improvements, together with upgrades at the Collins Park Water Treatment Plant, such as the addition of new ozone treatment facilities in 2020 and new filter improvements in 2022, will provide additional treatment barriers for removal of HAB toxins.

Current Construction Progress

HEATHERDOWNS PUMP STATION

100%

WORK COMPLETE
\$2.3 MILLION

UNDERWAY

- » Final punch list

NEW SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) SYSTEM

98%

WORK COMPLETE
\$6.7 MILLION

UNDERWAY

- » Main control room commissioning
- » Solids Dewatering Facility integration
- » Final punch list

LOW SERVICE PUMP STATION

81%

WORK COMPLETE
\$25.9 MILLION

UNDERWAY

- » Commissioning standby generators
- » Door and window replacements
- » Gate valve refurbishment and new surge valve installation

COLLINS PARK ELECTRICAL UPGRADE

10%

WORK COMPLETE
\$17.4 MILLION

UNDERWAY

- » Security fence relocation
- » First Energy substation installation
- » Main switchgear building construction