

YELLOW RIVER WATER RECLAMATION FACILITY

LILBURN, GA

THE CHALLENGE

Gwinnett County was faced with the need to update and expand the Yellow River Water Reclamation Facility while maintaining treatment capacity and limiting disruption to the surrounding community. Due to the geography surrounding the facility, a traditional expansion was out of the question.

THE SOLUTION

Acting as Construction Manager at Risk, the PC Construction team formulated a plan to open a corridor through the middle of the existing plant which enabled the construction of much of the new plant's systems while minimizing the impacts to the surrounding community. This also allowed the plant to remain operational at the necessary capacity and in compliance with all permitting requirements.

DESCRIPTION

Upon completion, the application of membrane filtration will greatly decrease the nutrient levels flowing into the Yellow River basin, while requiring much less space than traditional processes.

Gwinnett County was concerned the construction activities at the plant would be overly disruptive to the surrounding community. As a result, PC Construction, in partnership with Jordan, Jones & Goulding, initiated a "Good Neighbor" policy to ensure the expansion brought improvements for homeowners in the immediate vicinity. Odor control, stronger noise abatement, and reduced lighting around the site helped minimize the concerns of area residents. PC Construction sought out methods to limit possible community disruptions. A policy was created



to limit the occurrence of major work to between the hours of 7:00 a.m. and 5:00 p.m. Sound abatement technologies were used whenever reasonably possible to prevent excessive construction-related noises from reaching the community.

The result of this "Good Neighbor" policy is a project under construction with the support of the community at the best value to the customer. Once the renovations are complete two older plants will be removed from service, eliminating the potential for additional flows into the Yellow River Basin. The new flows will be treated to a much higher standard with improved reliability at an overall decreased cost to the owner, ultimately saving the ratepayers money.



CONSTRUCTION

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