

Water Treatment Plant Additional Information

The objective of this is to enable the University of Central Florida (UCF) to enter into an agreement with for engineering services during the design, bidding, permitting, and construction of a new Water Treatment Plant (WTP) along Ara Drive, and decommissioning of the existing WTP along Gemini Drive.

UCF Environment

UCF owns, operates, and maintains a potable water system supplying water to UCF main campus property and some outlying private areas. The potable water system consists of one water treatment plant (WTP), one ground storage tank (GST), one elevated storage tank, distribution mains, service lines, meters, fire hydrants, and other appurtenances. During emergencies or scheduled system maintenance events, UCF can receive potable water through a metered interconnect with Orange County Utilities (OCU). An existing booster pumping station is only used to increase pressure in the UCF water system when the interconnection pressure is not sufficient at the interconnect. Recently, UCF was able to increase its existing Consumptive Use Permit (CUP) #3202-13, issued by the St. Johns River Water Management District (SJRWMD), from 0.703 MGD to 1.11 MGD, on an annual average daily basis.

The existing WTP is in the UCF main campus “core” area and constrained for space. Due to drinking water and water supply regulation changes, UCF is looking to replace the existing WTP with a new WTP, located along Ara Drive, with a maximum day permitted capacity of up to 2.0 MGD. The new WTP will include new wells, in the lower Floridan water supply, two (2) ground storage tanks, ozone and GAC treatment systems, chemical feed systems (sodium hypochlorite), high service pumps, a concrete Control Building, yard piping, instrumentation and controls, site development with driveway, stormwater retention system, stand-by generator, and ancillary components. The Control Building will house, at a minimum, the ozone generation system, high service pumps, laboratory, operations center, spare part storage, restrooms, and electrical room. Additionally, a new Field Operations Building will be included for administration and operations support. The Field Operations Building is expected to be 3,000 square feet, single story, with a separate parking lot and share a drainage system with the new WTP.

UCF wishes to retain the services of a professional engineering firm specializing in design, permitting, bidding, and construction administration services for a new WTP, including all ancillary systems, Field Operations Building, and the decommissioning of the existing WTP.