## HARRIS COUNTY MUD NO. 286

## DISCHARGE PERMIT RENEWAL

## PLAIN LANGUAGE SUMMARY

*The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application*.

Harris County Municipal Utility District No. 286 (CN600736953) operates the Harris County Municipal Utility District No. 286 Wastewater Treatment Facility (RN10294030), an activated sludge process plant operated in the complete mix mode. The facility is located at 14902 Jones Rd, Houston, TX 77070.

This application is for a renewal to discharge at an annual average flow of 600,000 gallons per day of treated domestic wastewater via Outfall 001.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), ammonia nitrogen (NH3-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. The process flow scheme of the wastewater treatment facility incorporates two plug-flow reactors using the complete mix, activated sludge process as the primary treatment system. The collection system flows to the wastewater treatment facility through gravity pipes to a lift station on the wastewater treatment facility site where it is pumped to the influent mechanical screen and treatment facilities including aeration basins, clarification, aerobic sludge digesters and disinfection. Outfall is through a 24-inch pipe to Cypress Creek.