

MANAGEMENT OF THE PUBLIC SERVICES DEPARTMENT FOR
THE CITY OF LONG BEACH, MISSISSIPPI**LONG BEACH,
MISSISSIPPI****APPLICATION:**

Municipal Sewer

CONTRACT VALUE:

\$4,500,000

TECHNOLOGY:

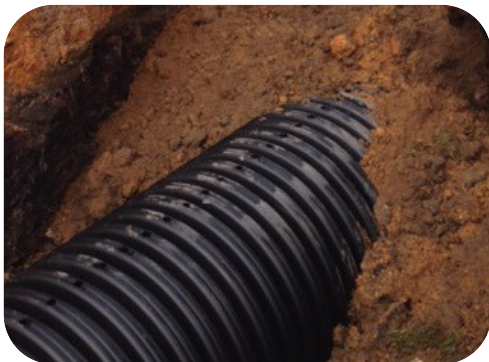
Conventional Activated Sludge

CAPACITY:

7 MGD

PROJECT START:

2006

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Alderman
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ctedf2017@gmail.com**BACKGROUND**

H₂O Innovation provides Operation and Maintenance (O&M) services for the City of Long Beach under a contract initially signed in 2007 and successfully extended in 2012 and in 2017. H₂O Innovation also provides utility billing services to approximately 5,200 customers, with a collection rate that has consistently exceeded 98%. In the Long Beach area, solid waste services, including garbage and recycling, are managed separately by the Harrison County Utility Authority (HCUA).

The Long Beach/Pass Christian Wastewater Treatment Facility, completed in 1987, is designed to treat 7 million gallons per day (MGD), with a peak flow capacity of 18 MGD. The facility uses an extended aeration activated sludge process and produces effluent with total suspended solids (TSS) and biochemical oxygen demand (BOD) concentrations of 5 mg/L or less, and ammonia concentrations of 1 mg/L or less.

SCOPE OF WORK

Since 2007, H₂O Innovation has provided asphalt repairs, sidewalk replacement, and drainage network maintenance in Long Beach to support proper stormwater runoff during rain events. We also maintain rights-of-way through mowing and targeted chemical treatments for weed control. Beautification and landscaping services are performed annually at City Hall and other public buildings.

Our team also provides maintenance services for City parks, municipal buildings, and the cemetery, as well as fleet and equipment maintenance for all City-owned assets.

SCOPE OF WORK (continued)

Screening and grit removal take place in the headworks area. Screening is provided by two rotary screens, each equipped with a bypass channel and manual bar rack. Grit is removed in an aerated channel using a grit pump and a clarifier mounted on a traveling bridge.

Two oxidation ditch aeration basins, operated in series, provide BOD and ammonia removal. The flow then passes through four secondary clarifiers, where solids are removed. Activated sludge is returned to the process. The treated effluent is disinfected using chlorine gas injection, followed by sulfur dioxide addition to remove any residual chlorine. Permit requirements for a minimum dissolved oxygen concentration of 6 mg/L are achieved using two submersible aerators in the post-aeration basin. Digested sludge from the aerobic digesters is dewatered using belt filter presses and transported by a sludge contractor to a permitted facility for land application.

Our water division responsibilities also include the operation of the City's nine water wells, which produce 2.4 MGD, along with three elevated storage tanks and the water distribution infrastructure. Our team also maintains 70 sewer pumping stations and approximately 400,000 linear feet of collection system piping.

We use a computerized maintenance management system (CMMS) to track the preventive and corrective maintenance history of these assets.

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