

# PROJECT CASE STUDY

## Federal Correctional Complex, Beaumont TX

### ENVOCORE SOLUTIONS

- One-on-one replacement of existing sanitary fixtures in cells, restrooms or retrofitting of existing fixtures and valves to decrease water usage.
- Water fixtures operated as before and our scope of work provided for the retrofit and installation of new low flow consumption flush valves, toilets, and sinks.
- Installation of a new ozone system on commercial laundries as well as have installed electronic devices to limit toilet flush frequency and shower usage.

### DRIVERS

- Federal agencies must reduce energy use in their facilities by 30% from their 2005 baseline by 2015. The facility houses over 5,600 inmates in low, medium, and high-security areas.

### PROJECT BACKGROUND

Federal Correctional Complex, Beaumont (FCC, Beaumont) is a large federal prison for men consisting of two different levels of security, including low, medium, and high, in unincorporated Jefferson County, Texas, near Beaumont.

Our scope also included ensuring that the existing toilets are flushing at the correct rate of 1.6 gpf, the urinals are replaced with new 0.13 gpf fixtures, the existing lavatory faucets are retrofitted with 0.5 gpm spray moderators and showerheads are replaced with new 2.0 gpm fixtures.

The overall savings was significant. Utility savings were generated in three different areas: water, sewer, and natural gas usage.

<https://www.bop.gov/locations/institutions/bmm/>