
Water and Wastewater System Improvements, Construction, and O&M

Customer: Bayview Management
Location: Howard County, MD



Description:

Hydro-Terra Group (HTG) assisted Bayview Management to increase their wastewater capacity and improve water quality as part of a comprehensive building improvement plan at their West Friendship Property. HTG's improvements allowed the shopping center to incorporate more businesses and increased revenues (including a high-volume drive-through coffee shop/restaurant). HTG's services included permitting and installation of a new redundant water supply well, upgrading the potable water treatment system, modifying an existing wastewater collection system and installing a new pre-treatment and deep trench disposal system. Upgrades to the existing wastewater collection system incorporated pumps, floats, controls, a new equalization and pump tank. Additionally, a new 1500-gallon grease trap was integrated into the collection system to accommodate the new food service tenant. Wastewater treatment system upgrades included a new 8500-gallon pre-treatment, a new 3000-gallon pump tank and drain-field rehabilitation and expansion. A remote monitoring system was installed to allow for off-site observation of system performance.

Project Highlights:

- ✓ Installed new piping from the well line to the distribution system; including upgraded treatment equipment, gauges, sample ports, and bypass valves.
- ✓ Installed a second 119-gallon pressure tank, increasing capacity.
- ✓ Upgraded the pH adjustment system adding secondary containment and monitoring with a data-logging function.
- ✓ Installed a chlorine disinfection system and analyzer with a data-logging function.
- ✓ Installed a new totalizing flow meter and remote readout.
- ✓ Provided operations support during the permitting and completion phases of work.
- ✓ Installed a back-up potable well, including geologic logging and complete well pump installation.



Redundant Potable Water Supply



Wastewater Treatment System & Drain-field