

PROJECT PROFILE

Novant Haymarket Medical Center Haymarket, VA

Novant Health Haymarket Medical Center in Haymarket, VA is one of the 63 Virginia Hospital and Healthcare Association (VHHA) member hospitals at which an Emergency Water Supply System (EWSS) are being installed. Onsite Water Management was the consultant chosen to provide a Phase I Opportunity Assessment, design and specifications, and commissioning and training for such a system.

Emergency Water Supply:
30 gpm well

Applications:
Cooling Towers, non-
potable domestic

Storage:
10,000 gallons

This and other EWSS projects under the VHHA program initiative, funded by a Federal grant from the Assistant Secretary for Preparedness and Response (ASPR), seek to provide hospitals with 96 hours of water supply in the event of a municipal water outage. Third party accreditation agencies trying to meet Centers for Medicare and Medicaid Services (CMS) Regulations recommend creating a plan that will enable a hospital to have adequate water resources to operate under emergency protocols. Beyond a desire to meet these recommendations to maintain or exceed accreditation standards, creating water independence provides peace of mind that allows hospitals to focus on providing excellent care even under emergency circumstances.

OWM took a three-phase approach to the planning, design, and installation of an Emergency Water Supply System at Haymarket Medical Center. Because the facility is under construction (final build out of 108 beds), actual water use data was not available, however, there was a unique opportunity to influence the design prior to construction, thus reducing costly retrofits. The process began with an Opportunity Assessment that evaluated the hospital's projected water use for industrial applications, vulnerability to water outages, feasibility of a water well as an alternative, on-site water source, and identified potential locations for water storage and filtration equipment. Because of jurisdictional regulations, the EWSS provides water for industrial applications only (such as cooling tower make up water) and a filling station that can be used for toilet flushing and non-potable domestic applications. The final system design identifies a well as an alternative water source providing 30 gpm of the 55 gpm required, 10,000 gallons of storage, and filtration regime that includes cartridge filters, ultrafiltration, water softeners, and chlorine dosing.



Photo courtesy of Novant Health

OWM has completed the system design and specifications, procured equipment, and will be providing commissioning and training early in 2014.