

Project Summary
Replace Heritage Hunt Sewage Pumping Station, L52
Heritage Hunt Sewage Pumping Station, L52, Force Main

Project Description:

The Service Authority (SA) owns and operates the Heritage Hunt Sewage Pumping Station (SPS) located in the Little Bull Run Sewer Shed. The SA is undertaking a process to upgrade the existing Heritage Hunt SPS to convey up to 7.81 Million Gallons per Day (MGD) in order to accommodate current and future anticipated growth in and around the Heritage Hunt community. This project will ensure sewer pumping capacity is available for residential and commercial developments in the Little Bull Run and Catharpin Creek Sewersheds in conformance with the Prince William County Comprehensive Plan.

The existing force main (FM) system consists of a 16-inch ductile iron and 10-inch PVC FM that act in parallel. The existing FMs do not provide sufficient capacity to convey the ultimate flow of 7.81 MGD. The project is intended to convey wastewater from the Heritage Hunt SPS to its final connection point at the corner of Heathcote Boulevard and Route 29 via 10,500 linear feet of new 24-inch ductile iron FM. Ultimately, the wastewater is conveyed to the Upper Occoquan Service Authority via various FMs and gravity sewer systems.

Project Engineer's Function:

Dewberry Engineers, Inc. (Dewberry) will combine the 100% FM design documents with the Heritage Hunt SPS construction documents previously developed for the Heritage Hunt project. Dewberry shall update the existing Heritage Hunt SPS bid-ready construction documents to meet the 2015 Virginia Uniform Statewide Building Code requirements. After bid phase services, Dewberry will provide the Service Authority with construction administration services for the life of the project.

In detail, the scope includes, but is not limited to topographic survey, subsurface utility locating, corrosion engineering, geotechnical analysis and insulation design, design of FM, update of SPS design to 2015 Building Code requirements, opinion of probable construction cost, permitting, bid phase services, construction administration services, and public outreach.

Project Benefits:

- Increase system capability to meet the current and future flows
- Provide a more reliable facility
- Maintain service reliability for all customers
- Reduce noise and odor from the SPS

Project Duration & Testing, Design and Permitting Timeframe:

- Public Facility Review Process: Completed February 1, 2017
- Design: July 2020 through January 2021
- Permitting, Advertisement and Award of Construction Project: January 2021 through November 2021
- Anticipated SPS and FM Construction Duration: 24 Months, with an estimated start date in late fall or early winter 2021

Project Website: <https://www.pwcsa.org/heritage-hunt-project>

Project Email Address: heritagehunt@pwcsa.org