
Stormwater Management a Focus for CEI at NAVFAC-Pax River Site



CEI recently assisted the Naval Air Station (NAS) Patuxent (PAX) River in completing a nonpoint source investigation at the installation's three complexes. Drainage system components were inspected, inventoried and assessed to assist the facilities in maintaining compliance with stormwater regulations. Complexes included the PAX River Main Complex, Patuxent River, Maryland and the Webster Field Annex, Saint Inigoes, Maryland.

Project tasks included stormwater infrastructure mapping using Global Positioning System (GPS) and Geographic Information System (GIS) integration conducted by CEI personnel to obtain horizontal position and vertical elevation of the stormwater piping and features. CEI mapped over 1,050 inlets, 450 manholes, 180 outfalls, and approximately 2,000 other storm drainage features. CEI prepared GIS base mapping in accordance with the NAVFAC-SDSFIE protocol for spatial data mapping. CEI staff also completed field surveys to determine the structural integrity of the stormwater system.

CEI conducted this stormwater system study to locate, map, clean and assess the condition of piping and structures at the NAS Patuxent River (PAX River) main complex and Webster Field. In addition, CEI worked with a team member to provide closed circuit television (CCTV) inspection of approximately 240,000 linear feet of piping at both complexes. CEI provided analysis and recommendations for repairs, rehabilitation and stormwater improvements at deficient sites.

For more information on this project or about CEI's Federal services, please contact Sebastian Amenta, P.E. at 860.224.0442 or samenta@ceiengineers.com.

www.ceiengineers.com