



The Eastbrook Outfall Canal is an upland open-cut ditch located 700' north of Aloma Avenue (SR 426) and Forsyth Road in unincorporated Orange County. The project was undertaken to address chronic erosion along the ditch banks that occurred historically and which became severe as a result of the hurricanes in the fall of 2004. The erosion was encroaching upon several residences and tennis courts, and sedimentation impacted downstream areas. The canal serves as an outfall from a large residential subdivision and discharges into the larger Crane Strand Canal, an impaired water body.

The project consisted of the design of ditch bank restoration reinforced with articulating block (cable concrete) mats. Issues and constraints addressed during the restoration project design included limited right-of-way for the armoring of the ditch banks. The design accounted for the removal of significant muck materials and the stabilization of pipe outfalls entering the canal.

As the prime consultant, Inwood was responsible for providing all engineering assessments, ditch restoration and armoring design, and plans production. Permitting was required through the St. John's River Water Management District to address surface water impacts. Inwood provided support services during ditch restoration construction and prepared as-built certifications.

The project was partially funded through emergency restoration funds from the National Resources Conservation Service. This required that the project be implemented on a fast track time line. All assessment, design, construction and as-built certification were completed in less than 9 months.

