

Shoreline Restoration

NSA Annapolis Shoreline

KEY METRICS

607 LF

Shoreline stabilized

4,095 SF

Marsh planted

200 CY

Sand fill placed

4

Reaches restored

PROJECT DETAILS

 Client
Mariner Science & Exploration, LLC Location
Annapolis, MD Dates
Oct 2021 – Jul 2024 Construction status
Construction complete

SERVICES

Living shoreline design,
Topographic/bathymetric survey, E&S
permitting (MDE lead), Construction
plans and details, Construction
stakeout/support, As-built survey

STAKEHOLDERS

NAVFAC Washington (U.S. Navy), MDE,
USACE, Alliance for the Chesapeake Bay,
Mariner Science & Exploration, Coastal
Construction Services

PROJECT DESCRIPTION

Sustainable Science provided survey, engineering design, and permitting support for a living shoreline project along Carr Creek at Naval Support Activity Annapolis, addressing an eroding, forested shoreline with no existing marsh. Work spanned four reaches (E, E1, G, and P) and included topographic and bathymetric survey, construction plans, erosion and sediment control design, Maryland Department of the Environment permitting, construction stakeout, site visits, and as-built survey and GIS deliverables. Coastal Construction Services built the project in 2024, installing hardwood log sills, sand fill, and marsh plantings. By July 2024 the team had installed roughly 607 linear feet of shoreline treatment and planted thousands of square feet of low and high marsh, with a five-year monitoring period to follow.

HIGHLIGHTS

- Installed about 607 LF of living shoreline along Carr Creek
- Planted approximately 4,095 SF of marsh vegetation
- Placed 200 CY of sand fill across four reaches
- Secured MDE tidal wetlands license 23-GL-0208
- Completed as-built survey and GIS deliverables
- Planted four replacement trees, net two bonus



Marsh plugs planted



Log sill with marsh



Restored shoreline



Sill elevated view