Project Background Haymount Development

- Located in Caroline County, VA just outside of Fredericksburg
- 1800+ acre development
- Located on 3 miles of Rappahannock River Shoreline
- 4000 Planned Housing Units
- Planning since 1990
- New Urbanism Style Development
- Responsible land use planning and Development

Stormwater Management Objectives

- Treatment at all major outfalls
- Preserve/improve runoff quality
- Preserve, enhance or restore resources
- Incorporate innovative treatment approaches
- Use a "treatment train" including interior management practices, stormwater mgmt. facilities, and resource restoration
- Incorporate bioengineered techniques that act as community amenities

A Sustainable Ecosystem Approach

- Conservation of biological diversity
- Maintenance of productive capacity of forest ecosystems
- Maintenance of forest ecosystem health and vitality
- Conservation and maintenance of soil and water resources
- Maintenance and enhancement of multiple social benefits

BIOENGINEERING – Wetland & Streams

- Constructed Stormwater Wetlands
- Multiple Teirs/Stages of Vegetation
- Hydraulic Connection to Existing Riparian Corridor
- Natural Channel Design
  - Channel Shaping
  - Instream Structures
  - Floodplain Connect
  - Stabilization with native species
Water Quality Monitoring Program

- Chemical and Biological Water Quality Monitoring to assess water quality
- Real time data collection posted on Haymount’s environmental website

Wastewater Treatment Plant

- SBR Technology
- Aerobic and Aerobic process for nutrient reduction
- Energy efficient pumps and design

Earth Tech’s LEED™ accredited architects, engineers and environmental scientists are working with Haymount to create an energy-efficient and environmentally sound Waste Water Treatment Plant

Water Reuse

- Street Tree Irrigation
- Stream Augmentation
- Wetland Enhancement
- Commercial Building Heating/Cooling
- Car Wash

The Reason and the Vision for Sustainability at Haymount

- Design with humility & acknowledge the complexity of nature
- Accept environmental responsibility
- Nurture the connection between nature and the human spirit
- Design with sustainability to allow for environmental technology and advancements

Contact Information:

John A. Clark Company
John Clark & Shelly May
(804) 742-5142
smay@jaclarkco.com

Williamsburg Environmental Group
Doug Beisch, P.E. & Scott Blossom
(757) 220-6869
dbeisch@wegnet.com