Merivale Avenue Geotube Stabilization Project
New Jersey’s
Shore Protection Program

State of New Jersey
Chris Christie, Governor
Kim Guadagno, Lt. Governor

Dept. of Environmental Protection
Bob Martin, Commissioner

Natural & Historic Resources
Amy Cradic, Assistant Commissioner

Office of Engineering & Construction
David Rosenblatt, Administrator
To administer beach nourishment, shore protection and navigational dredging projects throughout the State to:

- Provide for the protection of life and property along the coast
- Preserve our State’s vital coastal resources
- Maintain safe and navigable waterways
Shore Protection Fund –
Dedicated for...

“To protect existing development and infrastructure from storm surges, sea-level rise and shoreline migration through dune creation and maintenance, beach nourishment projects, and construction and repair of shore protection structures.”

$25 million dedicated annually
Realty Transfer Tax (N.J.S.A. C.13:19-16.1)
Shore Protection Funding –
How It’s Divided

Federal Projects - NJDEP - local sponsor in these projects
- Studies
- Storm Damage Reduction/Shore Protection
- Environmental Restoration

State Projects - Municipalities - local sponsor in these projects
- Storm Damage Reduction/Shore Protection

Professional and Technical Services -
- Stevens Institute of Technology
- Richard Stockton College of New Jersey
- Division of Fish and Wildlife
- New Jersey Geological Survey
Shore Protection Construction –
Cost Share Structure

Shore Protection Project

FEDERAL
- 65% Federal
- 35% State/Local

STATE
- 75% State
- 25% Local

New Jersey Dept. Environmental Protection
Bureau of Coastal Engineering
Shore Protection Program
Existing Conditions
Existing Conditions

15/03/2010

04/29/2010
Project Specifics

- Geotube and Scour Apron
  - Total length: 390 Linear Feet
  - 40-foot wide Scour Apron
  - Tube Dimensions – Stacked Pyramid Design
    - Top Tubes: Two 6 feet high x 12 feet wide x 195 feet long tubes
    - Bottom Tubes: Six 6 feet high x 12 feet wide x 130 feet long tubes
    - Anchor tubes: Six 5-foot diameter x 140 feet long tubes

- Additional Sand
  - 2,000 cubic yards from an approved upland source

- Structure Monitoring
CONTRACTOR

- Tri-State Dredging
  - Tom Clauss
    - Headquartered in Philadelphia, PA
    - Phone: (215) 624-2221
Typical Equipment
Required Permits

- **State**
  - CAFRA
  - Waterfront Development
  - Water Quality Certificate

- **Federal**
  - Department of Army Individual Permit
Project Costs

- Total Project Cost: $471,999.50
  - 75% State = $353,999.62
  - 25% Municipality = $117,999.88

- Town Responsible for Future Maintenance
Schedule

- 60 Day contract time
- Notice to Proceed: April 30, 2010
- Pre-Construction Meeting: May 5, 2010
- Construction End Date: July 4, 2010
What To Expect

- Limited Access @ Merivale Avenue
  - Provide public safety and adequate staging

- Heavy equipment operation between Leeward and Nelson Avenues

- 5 day a week/8 hour a day operations with continuous inspection
New Jersey Department of Environmental Protection

Shore Protection Program

www.nj.gov/dep/shoreprotection