

Initial Questions for Consultants

We ask that you respond to the following questions in writing and return your responses by **June 6, 2025**.

1. Have you worked with other coastal municipalities conducting studies and/or performing work with regard to climate change resiliency?

- Which municipalities have you worked with and when?
 - *Town of Dewey Beach/DE Center for Inland Bays (ongoing project at Sunset Park)*
 - *Town of Fenwick Island (ongoing Resilience Study)*
 - *Thompson Island Shoreline Stabilization/DNREC Parks/DE CIB (ongoing shoreline stabilization project)*
 - *City of Wilmington/Delaware Nature Society/FWS (ongoing rain gardens project along Brandywine River)*
 - *Maryland Coastal Communities including Crisfield, Cambridge, Princess Anne, Annapolis, Fells Point, Chestertown, Havre de Grace, Port Towns, Highland Beach (ongoing resilience plan development supporting UMD Environmental Finance Center)*
 - *Under-engaged community-based organizations in Baltimore, Annapolis and Salisbury Areas (ongoing technical assistance services through Chesapeake Bay Trust)*
 - *Dover Air Force Base (ongoing research study supporting University of Delaware to prepare hydrologic/hydraulic model to determine impact of climate change on stormwater, water, wastewater, and hazardous material)*
 - *Towns of South Bethany and Middlesex Beach (Larry Trout previous experience with multiple projects starting with development of Pollution and Stormwater Control Strategy and continuing with implementation of most of the projects identified in the plan from 2010 to 2020)*
 - *District of Columbia/Prince Georges County (ongoing planning project to address flooding concerns and increase resilience using regional blue-green infrastructure practices)*
 - *City of Baltimore (ongoing) support to Johns Hopkins coastal resilience vulnerability and design options for nature-based solutions. Grant funding through NFWF NCRF pending.*
 - *City of Aberdeen (2020) staff member developed climate adaptation plan for the City through MD DNR grant funding.*

2. What types of information would you need in order to conduct an initial study and report on Dewey Beach's climate change/resiliency needs?

- *Goals of community*
- *GIS/topographic survey of stormwater and other assets (already exists from Cotten Engineering Survey)*
- *Stormwater infrastructure inspection reports (I believe that it was performed by Remington & Vernick Engineers)*

- *Additional available GIS data including LiDAR, soils, depth to groundwater, impervious surfaces, etc.*
- *Tide data (already have this from our Sunset Park project)*
- *Previous studies (DE CIB Town of Dewey Stormwater Plans Ph 1 (Cotten Engineering) and Ph 2 (Larry Trout prepared) , DeIDOT SR 1 Coastal Green Infrastructure Plan (Larry Trout prepared), DeIDOT SR 1 Coastal Corridor Resilience Study (AECOM)*
- *Previous implemented projects (Larry Trout designed permitted and built Read Ave Bioretention, Read Ave Living Shoreline, and consulted to DeIDOT/WRA for SR 1 Median Concrete Removal and Pedestrian Safety Projects)*
- *Climate change projections for the area - DE State information and NOAA Intergovernmental Report information will be used to provide a range of options and risk profiles for solutions.*

3. Can you briefly describe the process, including the sequence and steps you will take to research and complete a study as well as a final project report?

- *Phase 1: Data Collection/Review and Stakeholder Engagement:*
 - *Compile/Review Data*
 - *Review/Communicate with Partners Previous Work*
 - *Meetings and Presentations with Town's Resilience and Sustainability Committee to Discuss Previous Work and Study Objectives*
 - *Review Existing GIS to ID/Screen Potential Projects*
- *Phase 2: Data Analysis and Prioritization of Mitigation Measures and BMPs:*
 - *Hydrologic/Hydraulic Modeling*
 - *Analyze Data to Develop Screening Criteria Matrix (Multi Criteria Decision Analysis)*
 - *Develop Roster of Prioritized Mitigation/BMP Opportunities*
- *Phase 3: Property Owner Contact and Field Assessments:*
 - *Assist with Outreach to Property Owners and Field Assessments*
- *Phase 4: Concept Design and Report:*
 - *Develop Report and Concept Level (15%) Designs*

4. Using your experience with other municipalities as a guide, can you estimate the time requirements and the cost for completing an initial study?

Based on past experience as well as similar work that we are currently doing for Town of Fenwick Island, we estimate that we could perform this work within 6 months of notice to proceed. The approximate cost to prepare this initial study would be \$100-\$120K. This estimate is slightly lower as is typical for this type of study since we have so much familiarity with the Town of Dewey Beach and the work that has been done to date already and also because we are currently doing a similar study for Town of Fenwick Island. We could also offer an initial study similar to what we are doing for nine (9) Maryland Coastal Communities through our work with UMD EFC NFWF National

Coastal Resiliency Grant. This study includes Phase 1 listed above as preparing a list of potential solutions. The cost for this study would be approximately \$10-15K.

5. If we selected your firm to do the work, will you be using the same staff members who previously did similar work with other municipalities?

Yes, staff that have worked and are currently working on similar work with other municipalities in Delaware/Maryland/District of Columbia would continue to work on this project including:

- *Larry Trout, Jr., PE*
- *Chris Overcash, PE*
- *Shellie DeMoss, PE*
- *Rebecca Adamo PE*
- *Haley Morgan EIT*
- *Erin Gavin, EIT*
- *Elizabeth O'Keefe Markham, GISP*

6. What sources of funding are you aware of for this type of project?

- *Delaware Water Infrastructure Advisory Council (DWIC) Surface Water Matching Planning Grant-Town of Dewey Beach (Larry Trout)*
- *Delaware Department of Natural Resources and Environmental Control (DNREC) Community Water Quality Improvement Program (CWQIP) – City of Wilmington (Straughan), Towns of South Bethany and Middlesex Beach (Larry Trout), Town of Dewey (Larry Trout)*
- *DNREC Nonpoint Source Section 319 Grant – City of Wilmington (Straughan)*
- *DNREC Watershed Improvement Projects Implementation Initiative (WIPII)- Stockley Center (Larry Trout), Dewey Beach (Larry Trout)*
- *National Fish and Wildlife Foundation (NFWF) National Coastal Resilience Fund-UMD Environmental Finance Center (Straughan), Dewey Beach (Larry Trout), MD 249 (Larry Trout)*
- *NFWF Delaware Watershed Conservation Fund – Delaware Wildlands Milford Neck (Straughan)*
- *National Oceanic and Atmospheric Administration (NOAA) Grants (Chris Overcash)*

Experience with other similar grants:

- *Federal Highway Administration (FHWA) Green Infrastructure Techniques for Coastal Highway Resilience Research Grant-SR 1 (Larry Trout)*
- *FEMA BRIC Grants-MD 249, Point of Rocks (Straughan)*
- *United States Department of Agriculture (USDA) Rural Development Loans and Grants-Port Deposit (Larry Trout)*
- *Maryland Department of Natural Resources (DNR) Shoreline Conservation Service Grants/Loans Program, Resiliency through Resiliency Initiative (RRI), Chesapeake and Atlantic Coastal Bays Trust Fund-Narrows Pointe (Larry Trout), CBT CBO-CBI(Straughan), Croppers and Starks Property Marsh Restoration (Straughan)*