



Shoreline Professionals' Perspectives & Training Support Programs

Keeping Up With Shoreline Changes Workshop

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Working together to scale up implementation of resilient practices along shorelines in the tidal James River watershed and beyond.

Outreach & Implementation Team

Lead: Emily Hinson
James River Association

Coordination & partnership among assistance programs

Maintain installed projects

Community engagement & outreach

Monitoring Team

Lead: Karen Duhring
VIMS

Assess existing monitoring efforts and identify where more effort is needed

Develop a Lower James living shoreline monitoring network

Training Team

Lead: Shereen Hughes
Associate: Stacie McGraw
Wetlands Watch & CBLP

Increase supply of qualified professionals to meet demand

Develop and pilot a Living Shoreline training & professional development program & process

Connect qualified service providers, clients, & funding

CBLP: Building a Network of Skilled Professionals Across the Watershed

Designed to address challenges, meet the demands of Bay region stakeholders, and engage and empower the sustainable landscaping & green infrastructure community



CHESAPEAKE BAY
Landscape Professional

Program Hallmarks – We Teach:

- Collaborative practice
- Critical thinking
- Unique regulations & ecology of Bay States
- Adaptive management
- How to find answers



Ultimate Goal of the Collaborative and the Training Team is to Grow Our Community of Practice to Meet LS Goals

Aligned by Professional & Regionally Consistent Performance Standards

Facilitate Connection, Access, and Availability of Qualified Service Providers with Other Practitioners, Program Coordinators, & Public

Agree on Qualification Criteria & Establish Referral Lists/Database of Qualified Service Providers

Identify and Fill the Labor, Knowledge, and Services Gaps with Regionally Consistent and Coordinated Delivery of Training Opportunities



Summary of Training Team Progress to Date



Recruited & Convened Team of Experts & Practitioners

Contractor/Practitioner Interviews & Team Feedback

Reviewed & compared existing training modules, resources, & digital tools

Integrated Professional Development into LSC events

Reviewed 255 LS Permit applications (10/20 - 3/22)

Photo Source: Wetlands Watch
Living Shoreline by:





What We Have Discovered So Far...

	Team Feedback	Contractor Interviews
Audience	Contractors Homeowners	Homeowners Government staff/boards
Training Priorities	Permits & Regs Site Eval <i>Design</i> Maintenance	Permits & Regs <i>Sea Level Rise</i> <i>Runoff Mitigation</i>
Resources/ Tools	Accurate cost comparisons Cost share programs Referral/Qualified Pros Database Realistic benefits/limitations Info for homeowners	<i>Design guidelines</i> <i>Case Histories and Sample plans</i> Realistic cost info Referral/Qualified Pros Database Property owner resources Tech for site eval & plan prep



Conclusions Based On Interviews and Team Feedback

01

Build Trust and address issues that limit interest of existing Shoreline Service Providers.

- **Listening Sessions and Roundtables**
- ***Provide Special Interest Workshops***
- Work with/train designers and permitting agents
- Build Referral Lists/Searchable Provider Database

02

Engage & Train Shoreline Decision Influencers

- Real Estate Agents
- Wetlands Boards
- Residential Developers/Builders
- Organized Volunteer Groups

03

Cross Train and Recruit New Private Sector Living Shoreline Service Providers & Grow Entry Level Workforce

- CBLPs or Other Landscape Contractors
- Program/Local Government Staff
- Environmental Consultants
- Students/Community Colleges/Interns



What Are Existing Lists and Centralized Tools Used to Qualify and Connect Service Providers and other Practitioners?

Living Shoreline Professionals In Your Area

Find address or place

Welcome!

Search for an address to learn more about the resources available to you for installing a living shoreline.

If you don't know the address, use one of these search methods:

- Click the search box and type in an address or choose **Use current location**
- Click within the map

Results will include information about features of interest.

Source: Chesapeake Bay Foundation GIS developed by Kati Grisby

OWNERS CONTRACTORS GRANTS/LOANS ABOUT **FIGHT THE FLOOD** FYI REGISTER SOLUTIONS INVESTMENTS
MIDDLE PENINSULA

Contractors or Consultants

<https://fightthefloodva.com/>





Introductory Modules & Workshops to Engage and Recruit

Intro to LS
Basics, Benefits,
Marketing

LS Business
Opportunities



Photo Source: Wetlands Watch
Living Shoreline by:





Professional & Workforce Development for Cross Over Practitioners & Influencers

Focus on Less Complex Living Shoreline Projects, Group 1 & 2 General Permits



Basic & Intermediate Workshops include Field Experiences, Case Histories, Credentials, CEUS

Site
Assessment

Design

Permitting

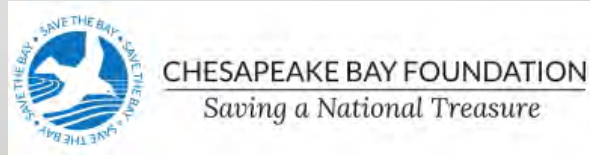
Construction

Maintenance
&
Monitoring



Professional Development Workshops and Meetings for Existing Shoreline Pros and Licensed Pros

Learning Opportunity by:



Redesign/Rehabilitation of Existing Living Shorelines

Advanced Design for Stormwater Management & Sea Level Rise

Cost Estimation for Living Shoreline Contractors

Advanced Desktop Analysis and Plan Preparation Tools



Permit Review

Permit Reviews

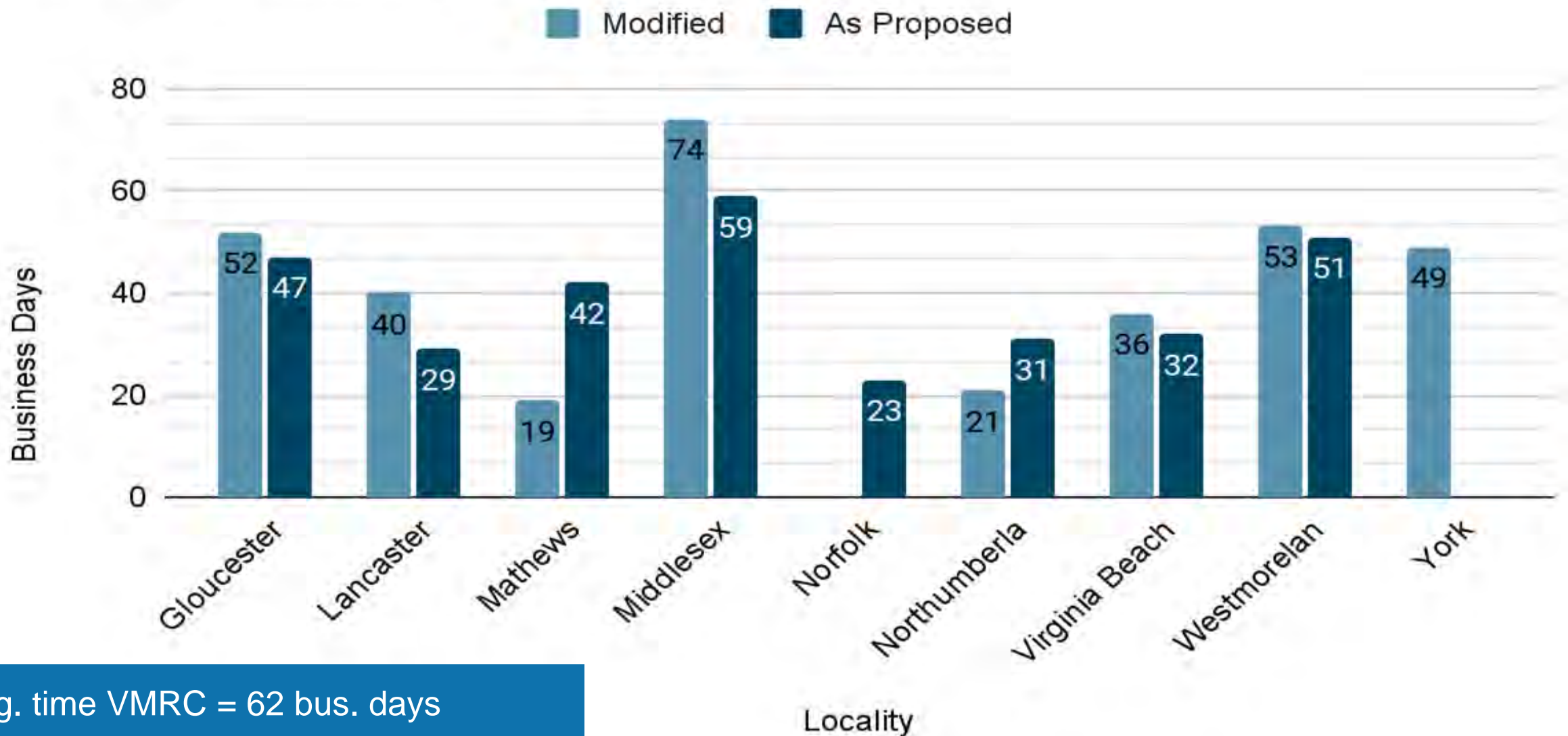
- Where is work being done
- Who are the contractors/agents
- Length of permitting process
- Identify regional trends

- Reviewed 255 living shoreline permit applications
- October 2020 - March 2022
- 229 (91%) were residential
- 81 qualified for Living Shoreline General Permits



Where & How Long?

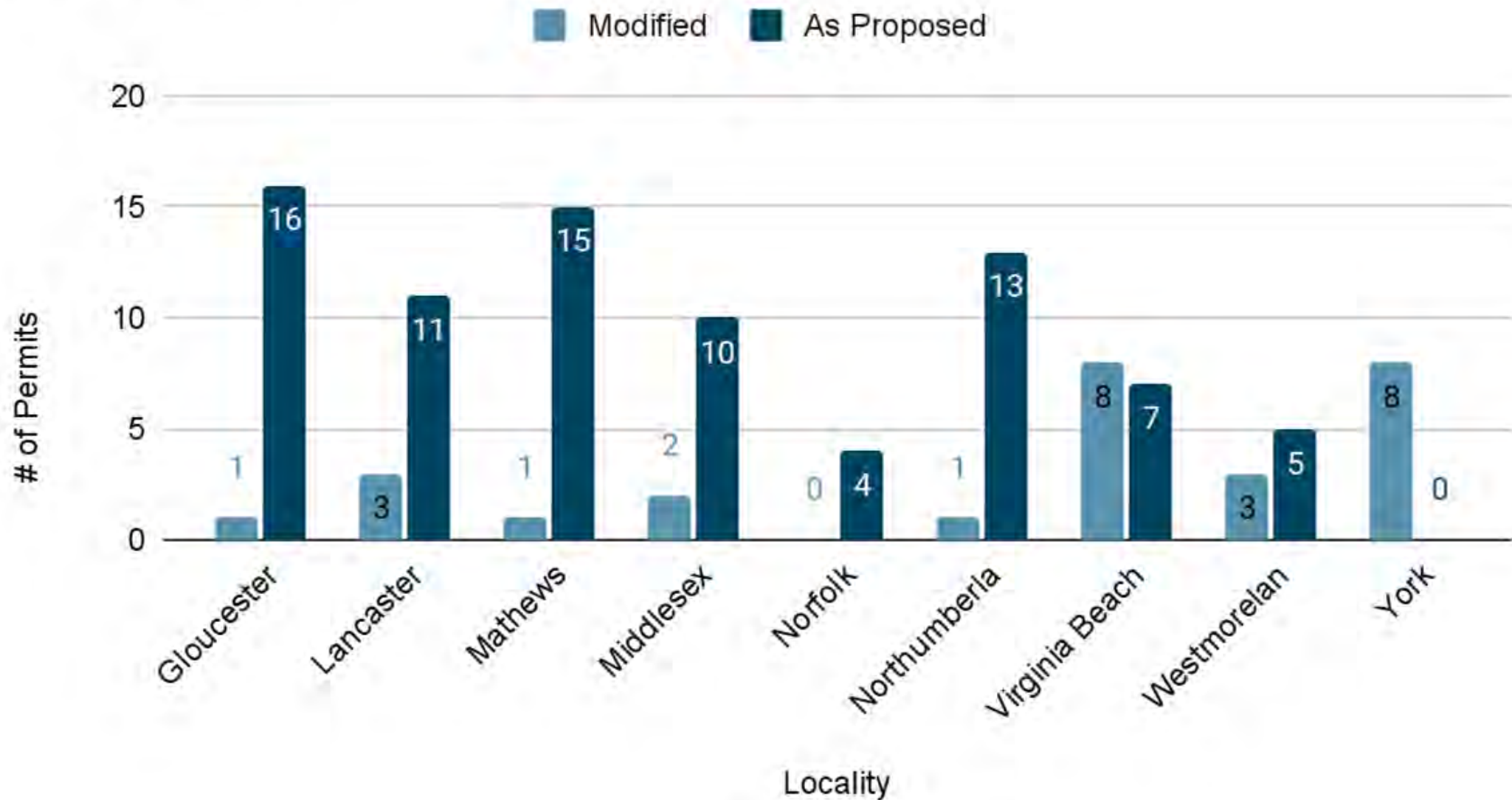
Average Permitting Time



* Avg. time VMRC = 62 bus. days

Regional Trends

LWB Decisions





Next Steps in Development

01

More Interviews

- CBLPs, Landscape contractors, architects, designers, engineers, environmental pros
- Real Estate Agents
- Permit Agents & Local Government Staff

02

Build Comprehensive Professional Lists

- Team member feedback
- Existing regional/organizational lists
- Permits & permitting agents
- Program affiliates

03

Refine Module Content

- Collect Case Histories
- Develop Modules with Expert Small Groups
- Map out Delivery Format for Module Content



Questions? Comments? Contact Us



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Thank you for Listening!