

Diagram of ideal plant spacing behind a sill, oyster reef or other wavebreak.

STEPS TO SUCCESSFUL SHORELINE MANAGEMENT

1. Understand your neighbors' shoreline plans.
2. Request pre-application meeting with MDMR.
3. Conduct a site assessment to determine the amount of shoreline to be protected, feasibility of the project, and best type of shoreline stabilization practice.
4. Hire a project consultant.
5. Obtain a project design and cost estimate.
6. Apply for and receive permit(s) if necessary.

For more details on the permitting process see:
<http://www.dmr.ms.gov/index.php/coastal-resources-management/wetland-permitting>

WHO TO CONTACT:

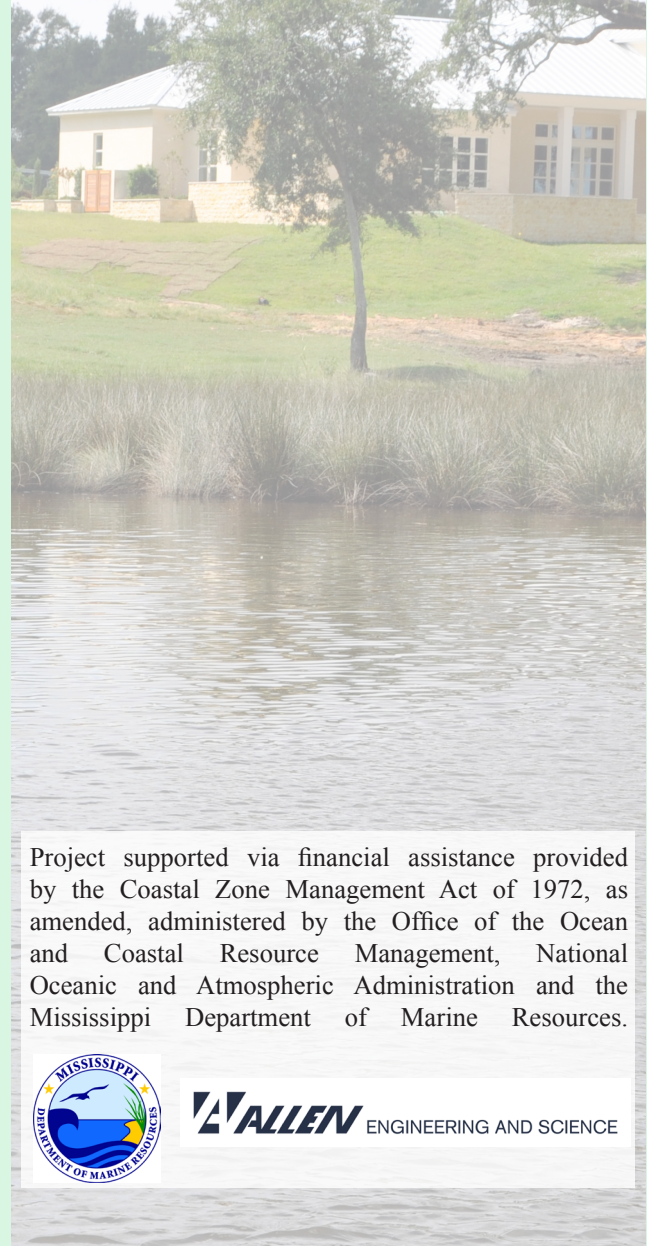
Permitting Questions:

Bureau of Wetlands Permitting
 Mississippi Department of Marine Resources
 1141 Bayview Avenue
 Biloxi, MS 39530
 Website: <http://www.dmr.ms.gov>
 Phone: (228) 523-4144
 DMR Switchboard (228) 374-5000

U.S. Army Corps of Engineers
 Mobile District
 Regulatory Division
 Mobile, AL 36602
 Phone: (251) 690-2658
 Website: <http://www.sam.usace.army.mil/>
 Biloxi Field Office
 Phone: (228) 523-4116

CONSTRUCTION COST COMPARISONS

ALTERNATIVE SHORELINE MANAGEMENT STRATEGIES **DMR**
 MISSISSIPPI DEPARTMENT OF MARINE RESOURCES



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ALLEN ENGINEERING AND SCIENCE

LIVING SHORELINE EXAMPLES

A “living shoreline” describes a natural approach to shoreline stabilization that reduces erosion while restoring, preserving, or creating valuable habitat along the shore. These attractive shoreline management strategies work with nature to prevent erosion and improve habitat in a variety of coastal conditions. Compared with more traditional hard structures, living shorelines are frequently more economical to implement as well.



Marsh Plantings



Coir Logs, Natural Fiber Mats with Vegetation



Oyster Reef Structure



Sills with Planting

Cost of Alternative Shoreline Management Practices			
Practice	Best Used in Areas with:	Materials	Costs
Marsh Plantings	Low energy shorelines	Salt Grass plant	\$3/ plant/ LF
	Minimal slope	Smooth Cordgrass plant	\$3/ plant/ LF
Coir Logs & Natural Fiber Mats with Vegetation	Low energy shorelines	Coir logs	\$5.50/ LF
	Moderate slopes	Natural fiber matting	\$0.22/ LF*
Oyster Reef Structures	Moderate to high wave energy	Oyster shells, loose	\$20/ LF
	Conditions good for oyster growth	Oyster shell bags	\$5 - \$30/ LF
	Firm sand bottom	Reef domes	\$44/ LF**
Sills with Plantings	Conditions good for marsh growth	Concrete bags	\$12 - \$16/ LF
	Shorelines with sunlight	Limestone rock	\$125 - \$200/ LF
	Shorelines with failed bulkheads	Salt Grass plant	\$3/ plant/ LF
	Tidal bayous	Smooth cordgrass plant	\$3/ plant/ LF
Bulkheads	High wave energy	Vinyl	\$125 - \$200/ LF
	Limited land availability	Wood	\$115 - \$180/ LF
	Structures at risk	Concrete	\$100 - \$200/ LF

* Engineered Geotextiles are also available at a variety of price points.

** Installation costs will vary depending on distance of transport and site conditions.