

WAGON HILL FARM



A NEW LOOK FOR THE SHORELINE



IN ORDER TO GET THERE...









IN ORDER TO GET THERE...

Memo		NH NATURAL HERITAGE E NHB DATACHECK RESULTS				
To: David Burdick, UNH James Hall			_			
Durham, NH 03824 From: Amy Lamb, NH Na	DHR Comment/Finding Recommendation This Space for Division of Historical Resources Use Only					
Date: 11/8/2016 (valid for Re: Review by NH Nata NHB File ID: NH Description: The	☐ Insufficient information to initiate review. ☐ No Potential to cause Effects ☐ No Hist	Additional information is	needed in order to c	complete review.		
As requested, I have searched ou Comments: There are record species may be present within t	Comments: CONCOL WITH LESULTS OF FURTHER STUDY. WALLISTING. PLOTECTED DULING CONSTRUCT. DIL SHOULD BE CONSULTED IN		DEPARTMENT OF THE ARMY ENGLAND DISTRICT, CORPS OF ENGINEE 696 VIRGINIA ROAD ONCORD, MASSACHUSETTS 01742-2751	ERS		
	If plans change or resources are discovered in Resources as required by federal law and regulathorized Signature:	Regulatory Division CENAE-R-PEC Permit Number: NAE-2016-4 Town of Durham Attn: Michael Lynch 8 Newmarket Road Durham, New Hampshire 03: Dear Applicant: This is to inform you described on the attached NH	May 13, 2019 NHDES	The State of New Hampshire Department of Environmental Services Robert R. Scott, Commissioner		
			WETLANDS AND NON-SITE SPECIFIC PERMIT 2019-00405 NOTE CONDITIONS			
		Based on the informal determined that your project, waters or wetlands, will have waters of the United States, in General Permit No. 10 of the General Permits for the State	PERMITTEE:	TOWN OF DURHAM C/O MICHAEL LYNCH 8 NEWMARKET RD DURHAM NH 03824		
			PROJECT LOCATION:	WAGON HILL FARM RTE 4, DURHAM TAX MAP #11, LOT #8-2		

WATERBODY:

APPROVAL DATE:

OYSTER RIVER

FEBRUARY 22, 2019

EXPIRATION DATE: FEBRUARY 22, 2024



PARTNERSHIP EFFORTS & STATE OF THE PRACTICE

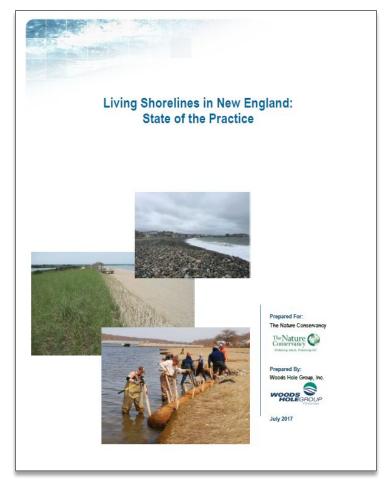


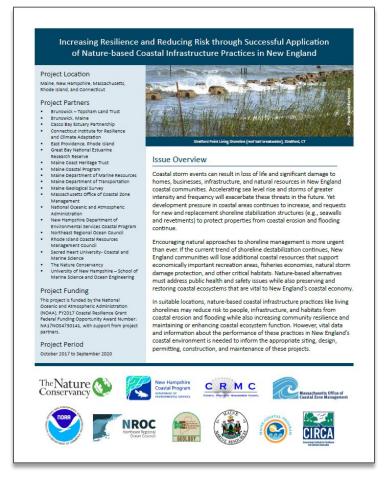












Download the report: https://bit.ly/2w7INM5

WHAT IS ALLOWED?

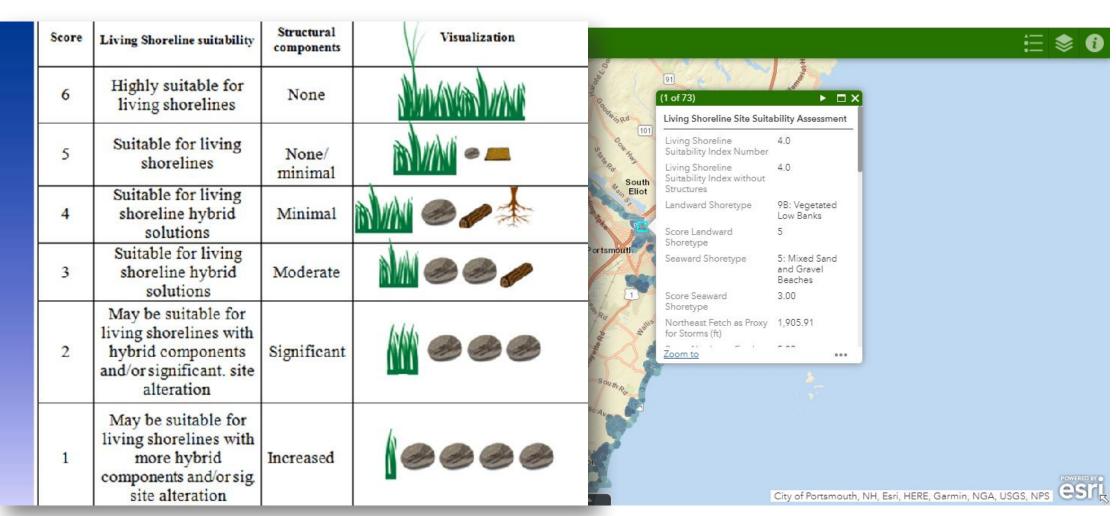
ENV-WT 600

(effective December 15, 2019)

Living shoreline means a management practice that provides erosion control benefits, protects, restores, or enhances natural shoreline habitat, and maintains coastal processes through the strategic placement of plants, stone, sand fill, and other structural organic materials, maintaining the continuity of the natural land-water interface while providing habitat value and protecting against coastal hazards.

A living shoreline of specified size will qualify for minimum impact project type, \$200 permit fee, and allow fill below highest observable

WHAT WORKS AT MY SITE?



Link to mapper: https://bit.ly/2HQp0qs

WHAT WORKS AT MY SITE?

Score	Living Shoreline suitability	Structural components	Visualization
6	Highly suitable for living shorelines	None	MANAMAN VALE
5	Suitable for living shorelines	None/ minimal	
4	Suitable for living shoreline hybrid solutions	Minimal	
3	Suitable for living shoreline hybrid solutions	Moderate	
2	May be suitable for living shorelines with hybrid components and/or significant. site alteration	Significant	
1	May be suitable for living shorelines with more hybrid components and/or sig site alteration	Increased	

Order a Living Shoreline Property Profile by sending the site address to kirsten.howard@des.nh.gov

WAGON **HILL FARM**

LIVING SHORELINE SUITABILITY **PROPERTY PROFILE**



SHORELINE TYPE | vegetated low banks & sheltered tidal flats

SUN EXPOSURE | favorable FETCH | low BOAT WAKES | moderate SLOPE | steep bank nearby and moderate seaward slope SOIL ERODIBILITY | moderate SALT MARSH | migration potential NEARBY STRUCTURES | rip rap











This property has a median living shoreline suitability index number of 3.6 out of 6.

This property may be suitable for a hybrid living shoreline approach with some structural components.

LIVING SHORELINE SUITABILITY SCALE

- Highly suitable for living shorelines, no structural components,
- Suitable for living shorelines, none to minimal structural
- Suitable for living shoreline hybrid solutions, minimal
- Suitable for living shoreline hybrid solutions, moderate structural components
- May be suitable for living shorelines with significant hybrid components and/or site alteration
- May be suitable for living shorelines with very significant hybrid components and/or site alteration

CONSIDERATIONS **FOR APPROACH**





Consult with your Conservation Commission, the NHDES Wetlands Bureau, and potential consultants. First consider the option to do nothing or move back from the shoreline. If those options are unacceptable, consider living shoreline approaches such as bank regrading, vegetated buffer enhancement, and a built salt marsh with a structural sill of wood or rock. Avoid plastic-based geo-

This information is derived from the New Hampshire Living Shoreline Site Suitability Assessment (L3SA). Data and recommendations are based on multiple datasets of different resolutions and should be supplemented by a site assessment prior to moving forward with any approach. Additional results and information from the L3SA are available. Contact NHDES Coastal Program | Kirsten Howard | kirsten.howard@des.nh.gov

LIMITATIONS FOR THE LOW-LYING



WHAT'S NEXT FOR LIVING SHORELINES?



PROFESSIONALS NETWORK



PROJECT ADVANCEMENT & MONITORING



LANDOWNER ASSISTANCE PROGRAM

Join the network by leaving your business card or emailing kirsten.howard@des.nh.gov