What will work at my site?

Encouraging living shoreline erosion management in coastal New Hampshire







By Kirsten Howard | Resilience Coordinator NH Department of Environmental Services Coastal Program ME & NH Beaches Conference | June 14, 2019

WAGON HILL FARM



A NEW LOOK FOR THE SHORELINE



IN ORDER TO GET THERE...



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Memo		NH NATURAL HERITAGE NHB DATACHECK RESULTS						
To: David Burdick, UNH James Hall Durham, NH 03824								
From: Amy Lamb, NH Na	DHR Comment/Finding Recommendat	ion This Space for Division	of Historical Resource	es Use Only				
Date: 11/8/2016 (valid for Re: Review by NH Natt NHB File ID: NH Description: The	Insufficient information to initiate review. Additional information is needed in order to complete review.							
salt As requested, I have searched ou Comments: There are record species may be present within (No Potential to cause Effects No Hist Comments: CANCHE WITH LESULTS OF HIGHEL STUDY. WARRISTICS. <u>PLOTECTED DULING CONSTRUC.</u> DHE SHOULD BE CONSULTED I.		DEPARTMENT OF THE ARMY V ENGLAND DISTRICT, CORPS OF ENGINE 699 VIRGINIA ROAD CONCORD, MASSACHUSETTS 01742-2751	ERS				
	If plans change or resources are discovered in Resources as required by federal law and regu Authorized Signature:	Regulatory Division CENAE-R-PEC Permit Number: NAE-2016- Town of Durham Attn: Michael Lynch 8 Newmarket Road Durham, New Hampshire 03 Dear Applicant:	May 13 2019	The State of New I Department of Environ Robert R. Scott, Con	nmental Services			
		This is to inform you		WETLANDS AND NON-SITE SPEC	IFIC PERMIT 2019-00405			
		described on the attached NH			NOTE CONDITIONS			
		Based on the informated 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: <u>https://bit.ly/2w7INM5</u>

Prepared By: Woods Hole Group, Inc WOODS

July 2017

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?

Scor	e Living Shoreline suitability	Structural components	Visualization	≡ \$ 0
6	Highly suitable for living shorelines	None	MULANGA VALA	(1 of 73) ► □ × Living Shoreline Site Suitability Assessment
5	Suitable for living shorelines	None/ minimal		101 Contraction of the second
4	Suitable for living shoreline hybrid solutions	Minimal		Eliot Structures Landward Shoretype 9B: Vegetated Low Banks Score Landward 5
3	Suitable for living shoreline hybrid solutions	Moderate		Shoretype Seaward Shoretype 5: Mixed Sand and Gravel Beaches Score Seaward 3.00
2	May be suitable for living shorelines with hybrid components and/or significant. site alteration	Significant		Shoretype Northeast Fetch as Proxy 1,905.91 for Storms (ft) <u>Zoom to</u> South Ab
1	May be suitable for living shorelines with more hybrid components and/or sig. site alteration	Increased		City of Portsmouth, NH, Esri, HERE, Garmin, NGA, USGS, NPS

Link to mapper: <u>https://bit.ly/2HQp0qs</u>

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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



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?



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