Managing Environmental Impacts of Private Docks

A Connecticut DEP Perspective



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Why does DEP regulate private recreational docks?



Because many users depend on coastal resources and their activities are not always compatible!

Some use coastal resources for their livelihood.



Some use coastal resources for recreation.



Some use coastal resources for habitat.



Regulation is necessary to:

- ensure that development proceeds in a sustainable manner
- protect traditional and water-dependent uses
- Minimize private encroachments
- avoid navigational congestion and minimize riparian conflicts

How Do We Regulate Docks?



Legislative Background For Coastal Activities

■ Structures, Dredging & Fill Act – 1939

■ Tidal Wetlands Act – 1969

■ Conn. Coastal Management Act – 1980

How does the CCMA work?

- Enforceable policies provide backbone
- Defines "coastal resources"
- Defines "adverse impacts"
- Includes "coastal use policies"
- In order to recommend approval, analysts must determine that a project is <u>consistent</u> with policies of the Act

What are Connecticut's coastal resources?



BEACHES & DUNES



COASTAL WATER

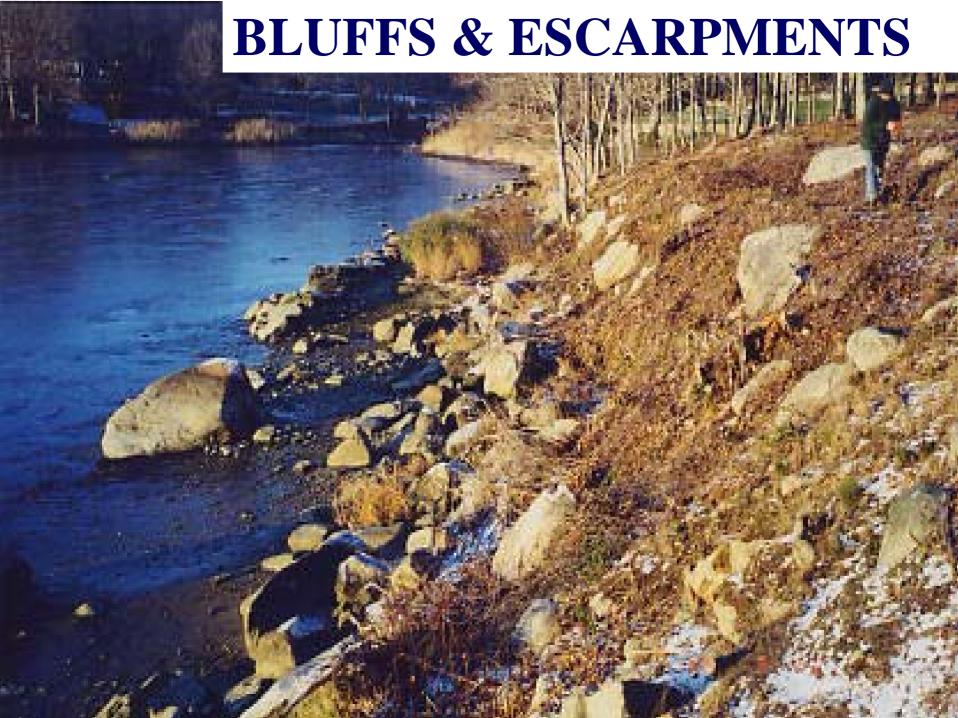


COASTAL HAZARD AREAS







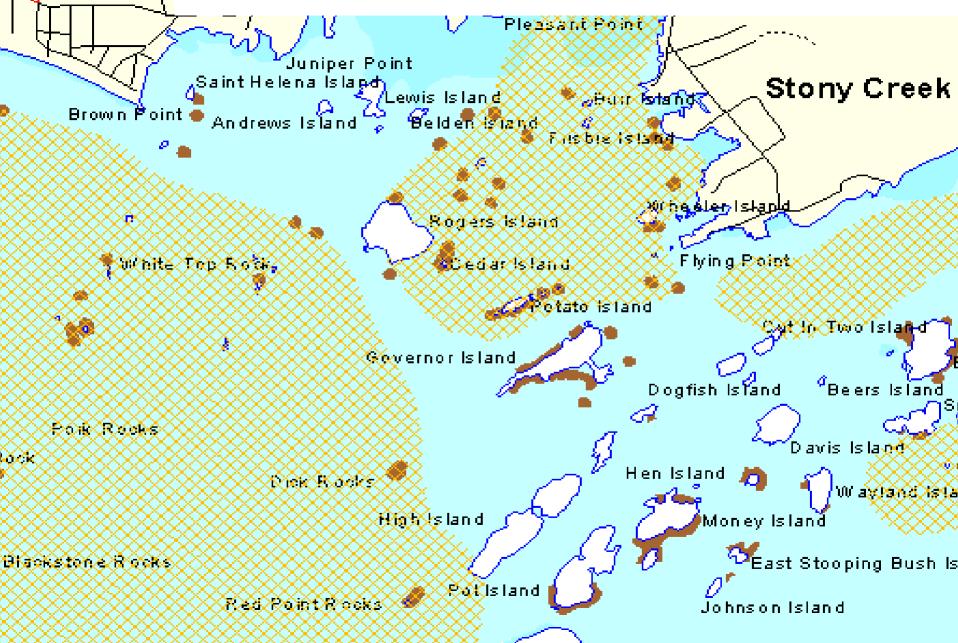




ROCKY SHOREFRONT



SHELLFISH CONC. AREAS



Old Cabble Daske

SUBMERGED AQUATIC VEG.









HOW DOES THE DEP PROTECT COASTAL RESOURCES WHEN PERMITTING DOCKS?

Regulatory Processes for New Private Recreational Docks

Structures, Dredging & Fill Permit

■ Tidal Wetlands Permit

■ General Permit for "4/40 Docks"

Review Process:

- Identify the coastal resources on-site using coastal resource definitions, maps, application, and site inspection
- Consider coastal use policies to determine if there are specific policies related to the proposal
- Consider potential environmental impacts to determine significance

Adverse Impacts

- Statutorily defined
- Magnitude of impacts is dependent upon the size, nature and location of project
- Minimization of adverse impacts is required to prevent "significant" longterm degradation of coastal resources

Adverse Impact Examples

"Degrading tidal wetlands, beaches and dunes, rocky shorefronts, and bluffs and escarpments through significant alteration of their natural characteristics or function." CGS Sec. 22a-93(15)(H)

Adverse Impact Examples

"Degrading or destroying essential wildlife, finfish or shellfish habitat through significant alteration of the composition, migration patterns, distribution, breeding or other population characteristics of the natural species or significant alterations of the natural components of the habitat." CGS Sec. 22a-93 (15)(G)

DEP REGULATORY APPROACH

- AVOID THE IMPACTS
- MINIMIZE THE IMPACTS
- MITIGATE THE IMPACTS

 RESULTING ACTIVITY MUST CONFORM TO STATUTORY CRITERIA THAT ALLOWS DEP TO APPROVE

THE GREAT BALANCING ACT

Applicant's Right to Wharf Out



Protection of Coastal Resources

Examples of the "Balancing Act in Action"



(REMEMBER ... AVOID, MINIMIZE, MITIGATE)

AVOID: LIMIT ONE DOCK TO EACH PROPERTY



AVOID: RECOMMENDING SHARED DOCKS WHERE APPROPRIATE



AVOID: BY PROPER SITING



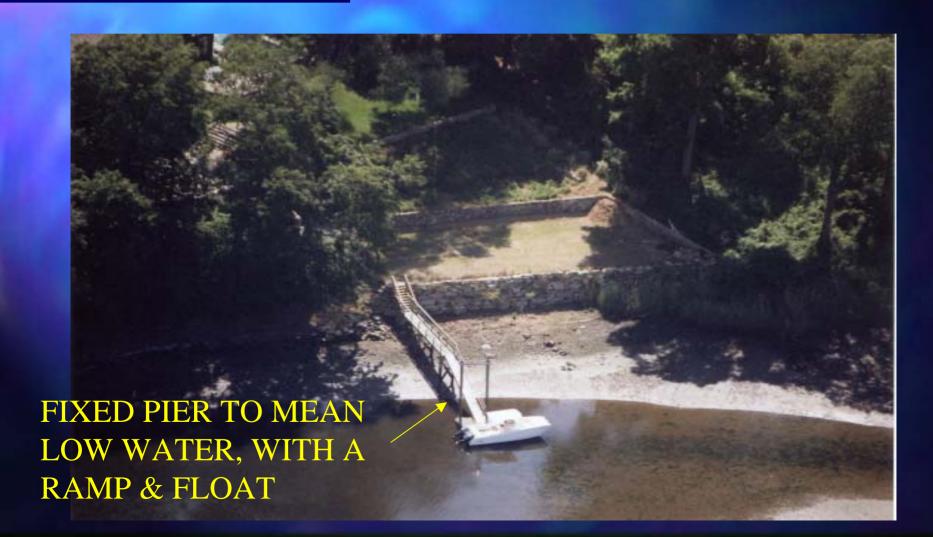
AVOID: BY DISALLOWING NEW DREDGING FOR PRIVATE DOCKS



MINIMIZE: ONLY ALLOW THE SMALLEST DOCK NECESSARY



MINIMIZE: USE OF STANDARD DOCKS



MINIMIZE: DOCK DESIGN



MITIGATE: BY PROPER DOCK DESIGN



MITIGATE: BY PROPER DOCK DESIGN



MITIGATE: BY PROPER DOCK DESIGN



MITIGATE: BY ENSURING APPROPRIATE CONSTRUCTION SETBACKS



MITIGATE: BY PREVENTING CONSTRUCTIONRELATED IMPACTS



WORK BARGE REQUIRED TO BE IN DEEPER WATERS DURING LOW TIDE CONDITIONS

MITIGATE:

BY RESTRICTING CERTAIN WORK DURING ECOLOGICALLY SENSITIVE PERIODS



MITIGATE: SEASONAL REMOVAL



MITIGATE: SEASONAL REMOVAL

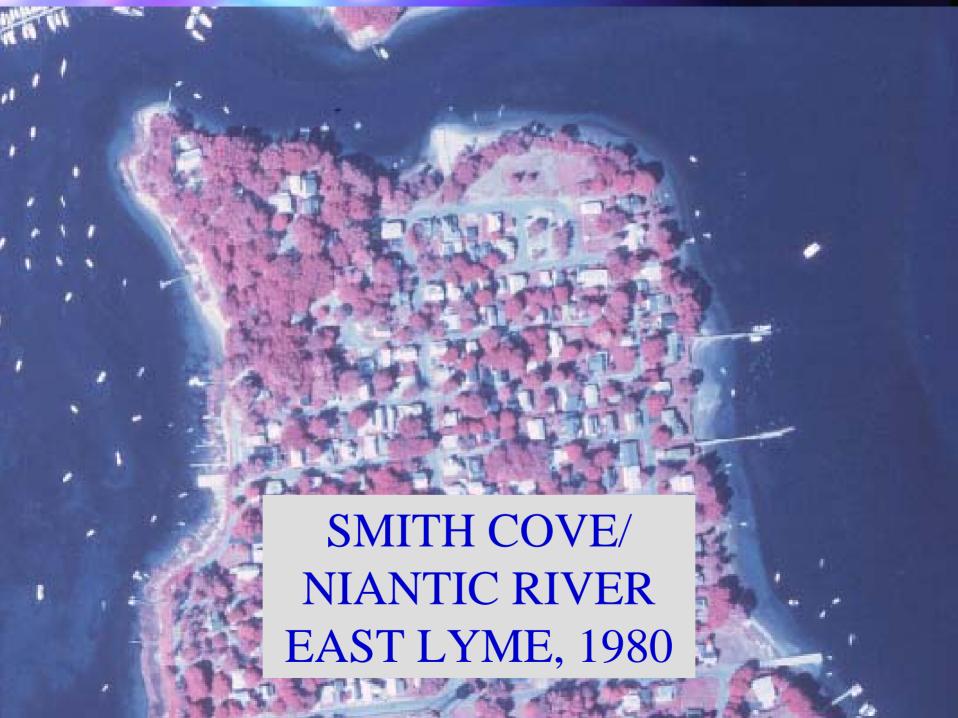


Where do we go from here?



"Pier-Pressure" Continues

- Avg. number of NEW dock applications per year has increased 53% since 1985
- Significant number of unauthorized structures out there (but we're finding them!)
- Few coastal waterbodies left in CT that have no docks





LOOKING FORWARD ...



- Better Understanding of Cumulative Impacts
- Considerations for Sea-Level Rise & Protection of Coastal Hazard Areas
- Evolving Scientific Knowledge Base Regarding Direct Impacts

Cumulative Dock Impacts: How many docks are "too many?"



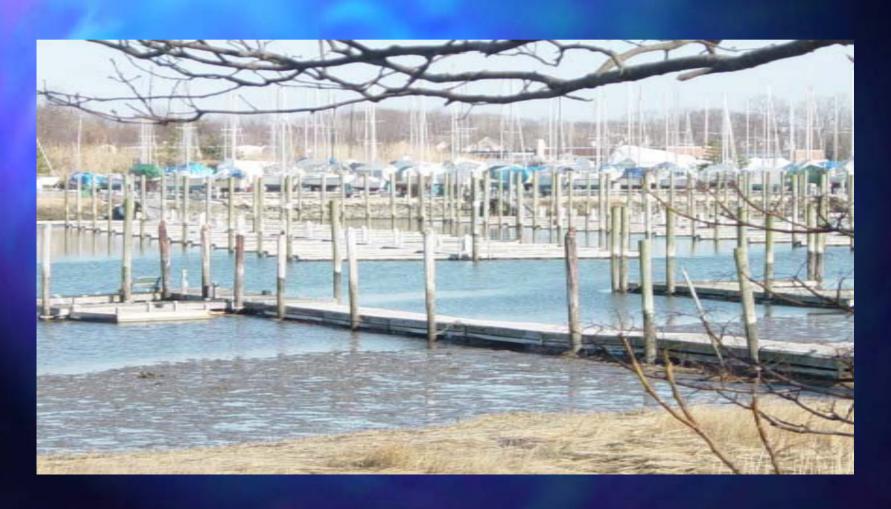
Cumulative Dock Impacts: How does pressure-treated lumber affect sensitive areas?



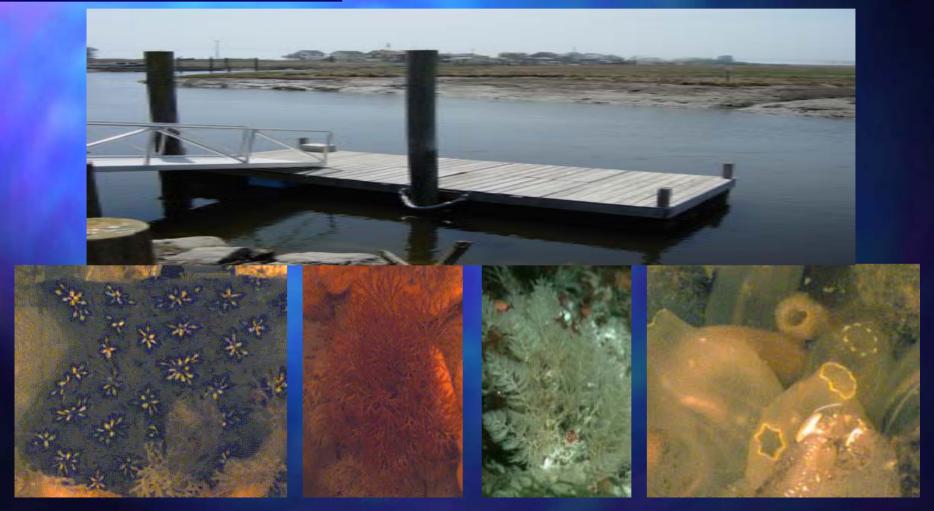
<u>Direct Dock Impacts</u>: Floats resting on bottom during low tide conditions



Cumulative Dock Impacts: Visual impacts associated with "clutter"



<u>Dock Impacts</u>: Platforms for invasive species?



Photos courtesy of James F. Reinhardt, Robert B. Whitlach, Richard W. Osman and Stephan Bullard

OUR GOALS INCLUDE:

PROCEDURAL CERTAINTY

FASTER PERMITTING TURNAROUND

BETTER ENVIRONMENTAL OUTCOMES

CONTINUED PROTECTION OF WATER-DEPENDENT USES

A WELL-MANAGED COAST!

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