



## ENVIRONMENTAL SCREENING FORM (ESF)

### DO-12 APPENDIX 1

Date Form Initiated: 08/18/2011

Updated May 2007 - per 2004 Departmental Manual revisions and proposed Director's Order 12 changes

#### A. PROJECT INFORMATION

**Park Name:** Cape Cod National Seashore  
**Project Title:** Removal of 6 structures from North Beach Island, Chatham, MA  
**PEPC Project Number:** 38597  
**PMIS Number:**  
**Project Type:** building removal (OTHER)  
**Project Location:**  
**County, State:** Barnstable, Massachusetts **Other:**map  
**Project Leader:** Karst Hoogeboom  
**Administrative Record Location:** CCNS Headquarters  
**Administrative Record Contact:**  
**Notes:** J.Katzmire review, 10-4-2011

#### B. PROJECT DESCRIPTION

Remove and dispose of the five houses owned by the National Park Service (NPS) known as the Bloomer, Carroll, Crowell, Dubis and Lumpkin cottages, complete and in their entirety, from the north end of North Beach Island in Chatham, MA. A small NPS-owned shed (approximately 10' X 12') on the eastern shore of the island that had been used by the Town may also be included in the removal contract. Demolition may be preceded by burning of one or more of the structures. The structures are at risk of substantial property damage during coastal storms, including powerful "northeasters" and hurricanes, so elimination of hazards to the structures, and to public safety and navigation will result from the project.

North Beach Island is a rapidly eroding sand barrier beach island recently separated from the mainland at Nauset Beach. The beach, dune and coastal bank landforms are migrating. Site conditions change with each tidal cycle. Some offshore areas are very shallow, while others drop off to depth quickly. The island is eroding at approximately 80 feet per year in some areas and is fully exposed to the forces of any storms. Because of the rapid rate of erosion, the NPS plans to remove these five houses before they are destroyed by wave action or storms, and remains of the shed that was destroyed through storm action in late October.

There is no alternative to this action that is environmentally responsible because the structures will not last in such a vulnerable, rapidly eroding environment. If the structures are not lost to storms and are not removed prior to being

surrounded by water, then access and permitting restrictions would make the removal more difficult and the project more damaging to the environment.

All five houses and the shed were rebuilt on pilings in the early 1990s after being destroyed during the No Name Storm of 1991. The scope of work is being refined, and work protocols will be finalized prior to the structure removal.

The NPS preferred timetable for this activity is 2012.

**Target compliance completion date:** 10/15/2011

**Projected advertisement/Day labor start:**

**Construction start date:**

**Is project a hot topic (controversial or sensitive issues that should be brought to attention of Regional Director)?** Yes

**C. RESOURCE EFFECTS TO CONSIDER:**

Identify potential effects to the following physical, natural, or cultural resources	No Effect	Negligible Effects	Minor Effects	Exceeds Minor Effects	Data Needed to Determine/Notes
1. Geologic resources – soils, bedrock, streambeds, etc.			Minor		During removal activity equipment will cause soil disturbance, however barrier beach is eroding at avg 80 feet per year and mitigations are planned.
2. From geohazards	No				
3. Air quality			Minor		Prescribed burning of one or more structures may occur. A Mass DEP air quality permit would be obtained, and optimum conditions established.
4. Soundscapes		Negligible			Temporary from equipment use.
5. Water quality or quantity	No				Work will occur at low tide due to coastal flooding on the island. Protocols reviewed with Conservation Commission - see attachment.
6. Streamflow characteristics	No				
7. Marine or estuarine resources		Negligible			Coastal processes will be less impeded by structures located in the velocity zone. Access to and from the island will be at high tide to minimize effects on eelgrass.
8. Floodplains or		Negligible			Removal of structures within

wetlands					floodplain velocity zone.
9. Land use, including occupancy, income, values, ownership, type of use			Minor		Annual permits will be discontinued.
10. Rare or unusual vegetation – old growth timber, riparian, alpine	No				
11. Species of special concern (plant or animal; state or federal listed or proposed for listing) or their habitat	No				No species of concern will be affected because of lack of suitable habitat in area or because timing of project is such that species are transient through the area, if present at all.
12. Unique ecosystems, biosphere reserves, World Heritage Sites	No				
13. Unique or important wildlife or wildlife habitat	No				
14. Unique or important fish or fish habitat	No				
15. Introduce or promote non-native species (plant or animal)	No				
16. Recreation resources, including supply, demand, visitation, activities, etc.	No				
17. Visitor experience, aesthetic resources	No				
18. Archeological resources	No				No known resources. Presence of resources unlikely due to transient and fluid nature of barrier island.
19. Prehistoric/historic	No				

<b>structure</b>					
<b>20. Cultural landscapes</b>	No				
<b>21. Ethnographic resources</b>	No				
<b>22. Museum collections (objects, specimens, and archival and manuscript collections)</b>	No				
<b>23. Socioeconomics, including employment, occupation, income changes, tax base, infrastructure</b>		Negligible			See 9.
<b>24. Minority and low income populations, ethnography, size, migration patterns, etc.</b>	No				
<b>25. Energy resources</b>	No				
<b>26. Other agency or tribal land use plans or policies</b>	No				
<b>27. Resource, including energy, conservation potential, sustainability</b>	No				
<b>28. Urban quality, gateway communities, etc.</b>	No				
<b>29. Long-term management of resources or land/resource productivity</b>			Minor		Will return a portion of the barrier beach island to a state without structures.
<b>30. Other important environment resources (e.g. geothermal,</b>	No				

paleontological resources)?					
-----------------------------	--	--	--	--	--

**D. MANDATORY CRITERIA**

<b>Mandatory Criteria: If implemented, would the proposal:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Comment or Data Needed to Determine</b>
<b>A. Have significant impacts on public health or safety?</b>		N		Removal of structures will take the buildings and residents out of harms way of erosion and storms.
<b>B. Have significant impacts on such natural resources and unique geographic characteristics as historic or cultural resources; park, recreation, or refuge lands; wilderness areas; wild or scenic rivers; national natural landmarks; sole or principal drinking water aquifers; prime farmlands; wetlands (Executive Order 11990); floodplains (Executive Order 11988); national monuments; migratory birds; and other ecologically significant or critical areas?</b>		N		
<b>C. Have highly controversial environmental effects or involve unresolved conflicts concerning alternative uses of available resources (NEPA section 102(2)(E))?</b>		N		
<b>D. Have highly uncertain and potentially significant environmental effects or involve unique or unknown environmental risks?</b>		N		
<b>E. Establish a precedent for future action or represent a decision in principle about future actions with potentially significant environmental effects?</b>		N		
<b>F. Have a direct relationship to other actions with individually insignificant, but cumulatively significant, environmental effects?</b>		N		
<b>G. Have significant impacts on properties listed or eligible for listing on the National Register of Historic Places, as determined by either the bureau or office?</b>		N		See Determination of No Historic Properties Affected

<b>H. Have significant impacts on species listed or proposed to be listed on the List of Endangered or Threatened Species, or have significant impacts on designated Critical Habitat for these species?</b>		N		No effects on listed or proposed species because the habitat is not suitable or the project will take place outside the time of year that habitat in the area may be used. No critical habitat designated in project area.
<b>I. Violate a federal law, or a state, local, or tribal law or requirement imposed for the protection of the environment?</b>		N		
<b>J. Have a disproportionately high and adverse effect on low income or minority populations (Executive Order 12898)?</b>		N		
<b>K. Limit access to and ceremonial use of Indian sacred sites on federal lands by Indian religious practitioners or significantly adversely affect the physical integrity of such sacred sites (Executive Order 13007)?</b>		N		
<b>L. Contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area or actions that may promote the introduction, growth, or expansion of the range of such species (Federal Noxious Weed Control Act and Executive Order 13112)?</b>		N		

For the purpose of interpreting these procedures within the NPS, any action that has the potential to violate the NPS Organic Act by impairing park resources or values would constitute an action that triggers the DOI exception for actions that threaten to violate a federal law for protection of the environment.

#### E. OTHER INFORMATION

1. Are personnel preparing this form familiar with the site? Yes
  - 1.A. Did personnel conduct a site visit? Yes
2. Is the project in an approved plan such as a General Management Plan or an Implementation Plan with an accompanying NEPA document? No
3. Are there any interested or affected agencies or parties? Yes
  - 3.A. Did you make a diligent effort to contact them? Yes
4. Has consultation with all affected agencies or tribes been completed? Yes
5. Are there any connected, cumulative, or similar actions as part of the proposed action? (e.g., other development projects in area or identified in GMP, adequate/available utilities to accomplish project) N/A

## F. INSTRUCTIONS FOR DETERMINING APPROPRIATE NEPA PATHWAY

First, always check DO-12, section 3.2, "Process to Follow" in determining whether the action is categorically excluded from additional NEPA analyses. Other sections within DO-12, including sections 2.9 and 2.10; 3.5; 4.5(G)(4) and (G)(5), and 5.4(F), should also be consulted in determining the appropriate NEPA pathway. Complete the following tasks: conduct a site visit or ensure that staff is familiar with the site's specifics; consult with affected agencies, and/or tribes; and interested public and complete this environmental screening form.

If your action is described in DO-12 section 3.3, "CEs for Which No Formal Documentation is Necessary," follow the instructions indicated in that section.

If your action is not described in DO-12, section 3.3, and IS described in section 3.4, AND you checked YES or identified "data needed to determine" impacts in any block in section D (Mandatory Criteria), this is an indication that there is potential for significant impacts to the human environment, therefore, you must prepare an EA or EIS or supply missing information to determine context, duration, and intensity of impacts.

If your action is described in section 3.4 and NO is checked for all boxes in section D (Mandatory Criteria), AND there are either no effects or all of the potential effects identified in section C (Resource Effects to Consider) are no more than minor intensity, usually there is no potential for significant impacts and an EA or EIS is not required. If, however, during internal scoping and further investigation, resource effects still remain unknown, or are at the minor to moderate level of intensity, and the potential for significant impacts may be likely, an EA or EIS is required.

In all cases, data collected to determine the appropriate NEPA pathway must be included in the administrative record.

## G. INTERDISCIPLINARY TEAM SIGNATORIES

*All interdisciplinary team members sign as directed or deemed necessary by the Superintendent. By signing this form, you affirm the following: you have either completed a site visit or are familiar with the specifics of the site; you have consulted with affected agencies and tribes; and you, to the best of your knowledge, have answered the questions posed in the checklist correctly.*

### Field of Expertise

Project Leader

### Field of Expertise

Natural Resource Specialist

106 Advisor

NHPA Specialist

106 Advisor

Planner

Archeologist

Chief of Natural Resources

NEPA Specialist

NEPA Specialist

Chief of Interpretation

General Maintenance Supervisor

Safety/Hazmat

District Ranger

Karst Hoogeboom

### Technical Specialist

Mark Adams

Margie Brown

Bill Burke

Richard Crisson

Erin Der-McLeod

Frederica Dimmick

Shelley Hall

Jacki Katzmire

Lauren McKean

Sue Moynihan

Dick Ramos

Nicole Taylor

Craig Thatcher

**H. SUPERVISORY SIGNATORY**

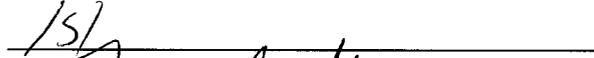
*Based on the environmental impact information contained in the statutory compliance file and in this environmental screening form, environmental documentation for this stage of the subject project is complete.*

**Recommended:**

**Compliance Specialist:**

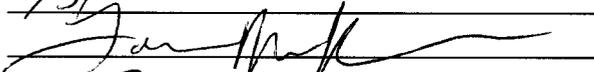
**NEPA**

Jacki Katzmire



Date: 10/17/11

Lauren McKean



Date: 11/23/11

**NHPA**

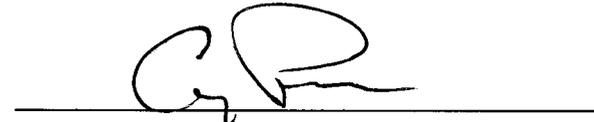
Bill Burke



Date: 11/23/11

**Approved:**

**Superintendent:**



Date: 11/23/11

George E. Price, Jr.