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Final
General Management Plan /
Environmental Impact Statement
August 2013

Fort Raleigh
National Historic Site
North Carolina

Archeological excavation at the earthwork fort (1950)
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General management plans are long-term documents that establish and articulate a management philosophy and framework for decision making and problem solving in the parks. Fort Raleigh National Historic Site’s last planning effort was completed in 1964, however this Master Plan was not prepared in conformance with the requirements of the National Parks and Recreation Act of 1978 (PL 95-625) and current management policies and guidelines. Since the 1964 Master Plan, the boundary of Fort Raleigh National Historic Site has expanded as well as the interpretive mission that includes peoples and individual’s whose lives and lifestyles span more than 420 years. Guidance is needed to provide management direction and address issues associated with the national historic site’s expanded boundary and themes. This general management plan provides management direction for the park for the next 15 to 20 years.

This document examines three alternatives for managing Fort Raleigh National Historic Site. The impacts of implementing each of the alternatives are also analyzed. One of the three alternatives is Alternative A, the “no-action alternative” that reflects park current conditions and management actions continued into the future. This alternative provides a baseline against which to compare the other alternatives. The remaining alternatives differ mainly in the level of partnerships, extent of research, the role of research in interpretation, level of trail development, and number of staff proposed.

The Draft General Management Plan/Environmental Impact Statement was distributed to other agencies and interested organizations for their review and comment after the Environmental Protection Agency’s notice of availability was published in the Federal Register (April 5, 2013, page 20632). The no-action period for this Final General Management Plan/Environmental Impact Statement will last for 30 days after the notice of availability for it is published by the Environmental Protection Agency in the Federal Register.
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SUMMARY

BRIEF DESCRIPTION OF FORT RALEIGH NATIONAL HISTORIC SITE

Fort Raleigh National Historic Site was established by Secretarial Order on April 5, 1941, to preserve land declared to be of national significance as a portion of the colonial settlement or settlements established in America by Sir Walter Raleigh between 1587 and 1591. The national historic site contains 513 acres that are unique in the National Park Service (NPS) system because of the preservation and interpretation of the history of the first English attempts at colonization in the New World (from 1585 to 1587), and the history of Native Americans, European Americans and African Americans on Roanoke Island. The national historic site also preserves the amphitheater and support facilities associated with the continuing production of the nations’ first and longest running outdoor symphonic drama, The Lost Colony. The drama is entirely managed and produced by the Roanoke Island Historical Association, the NPS’s principal partner in this continuing endeavor since the establishment of Fort Raleigh National Historic Site.

PURPOSE OF THE GENERAL MANAGEMENT PLAN / ENVIRONMENTAL IMPACT STATEMENT

The National Parks and Recreation Act of 1978 and NPS policy mandate the development of general management plan for each unit of the national park system with the intention of establishing future management direction. This general management plan provides comprehensive guidance for perpetuating natural systems, preserving cultural resources, and providing opportunities for quality visitor experiences at Fort Raleigh National Historic Site. This plan establishes the management framework and direction for the national historic site, addresses changing issues and conditions, and incorporates new resource information.

Although a general management plan provides the analysis and justification for future funding, the plan in no way guarantees that money will be forthcoming. Requirements for additional data for legal compliance and competing national park priorities can delay implementation of actions. Full implementation of a plan could lie many years in the future.

MANAGEMENT ZONES

Management zones and prescriptions indicate how different areas of the national historic site would be managed. The following four management zones were created for the national historic site: Visitor Services Zone, Administrative Zone, Waterside Theatre Zone, and Resource Preservation Zone. The Visitor Services Zone includes areas where visitors are introduced to the national historic site, and receive information about its resources, interpretive programming, and possible activities. The Administrative Zone houses administrative facilities such as maintenance facilities; administrative offices; national historic site staff housing; artifact research, treatment, and storage facilities; and partner offices and facilities. The Waterside Theatre Zone includes the Waterside Theatre and other facilities that accommodate and support The Lost Colony outdoor symphonic drama. The Resource Preservation Zone is focused on the preservation and protection of cultural resources and artifacts discovered. Natural resources would continue to be protected in accordance with laws and policies.

ALTERNATIVES

The NPS developed all alternatives with substantial public, interagency, and NPS staff participation. Three alternatives have been developed for managing visitor use and
resources at Fort Raleigh National Historic Site. Each alternative provides a different management approach. The alternatives were based on the park’s purpose and significance, legal mandates, public views, and information on visitor use and park resources. The alternatives are: Alternative A – the No-action Alternative, Alternative B, and Alternative C (NPS Preferred Alternative).

**ACTIONS COMMON TO ALL ALTERNATIVES**

Several actions would be proposed under all alternatives. These actions common to all alternatives are as follows (see chapter 2 for additional information regarding these actions):

- New exhibits for the recently repaired and renovated Lindsay Warren Visitor Center would be designed and installed.

- The Prince and Beehive houses, currently threatened by shoreline erosion and no longer viable for occupancy, would be removed from the national historic site.

- The national historic site has proposed to prepare a shoreline erosion management plan and environmental impact statement to present alternatives for addressing shoreline conditions at the national historic site, including lands and facilities.

- Catastrophic loss is defined by the NPS as loss of resources or facilities due to storms, floods, earthquakes, fires, or other disasters of natural or man-made origin. Ongoing shoreline erosion is not considered a catastrophic event. Resource management decisions due to shoreline erosion would be deferred to the shoreline erosion management plan and environmental assessment that is an element of all alternatives.

- Should shoreline erosion threaten the integrity of the Dough Cemetery, the NPS would initiate relocation of the cemetery with prior approval from the Dough family. Although the Dough Cemetery is currently protected by a rock revetment and a shoreline erosion management plan is proposed, relocation of the Dough Cemetery may still be necessary.

**ALTERNATIVE A: NO-ACTION / CONTINUE CURRENT MANAGEMENT**

**Concept**

Sections 1502.14 and 1508.25 of the Council on Environmental Quality (1978) regulations for implementing the National Environmental Policy Act require that an alternative of no-action be included in all environmental evaluations. Accordingly, the NPS developed a no-action alternative, designated Alternative A. Alternative A is the continuation of current management actions and direction into the future; continuing with the present course of action until that action is changed. “No-action” does not mean the national historic site does nothing. Rather, Alternative A represents how the national historic site would continue to manage natural resources, cultural resources, and visitor use and experience if a new general management plan was not approved and implemented.

**Visitor Experience**

The NPS would continue to centralize orientation to the national historic site at the Lindsay Warren Visitor Center. Interpretation of the Roanoke Voyages and modestly expanded interpretive themes would continue to occur through films and exhibits at the Lindsay Warren Visitor Center, the Freedmen’s Colony and Underground Railroad exhibits, through wayside exhibits, and other methods.
Facilities and Associated Visitor Activities

Under Alternative A, no new facilities would be constructed by Fort Raleigh National Historic Site or within the national historic site boundary. The national historic site would continue maintaining and operating the current trail system.

Expanded Interpretive Mission

The national historic site would continue to interpret the Roanoke Voyages and there would be limited opportunities to address expanded interpretive themes through films and exhibits at the Lindsay Warren Visitor Center, the Freedmen’s Colony and Underground Railroad exhibits, through wayside exhibits, and other methods. The small interpretive staff dedicated to Fort Raleigh National Historic Site would limit increased interpretive activities. There is currently one full-time permanent interpreter, supplemented by seasonal staff (NPS 2010a). Existing needs for interpretive activities include staffing the visitor center, presenting programs, conducting school tours, presenting education programs in local and area schools, roving the national historic site, developing interpretive products, and researching the history and resources of the national historic site. Visitors have expressed the desire to see ranger-led programming expanded, however this would not likely occur given existing staffing levels.

Partnerships

The national historic site would maintain existing partnerships with the Roanoke Island Historical Association and the First Colony Foundation. Expansion of existing partnerships or development of new partnerships would not likely occur.

Resource Conditions

Under Alternative A, the national historic site would:

- Maintain existing landscaped areas or convert them to low maintenance plantings.
- Allow natural processes such as shoreline erosion to prevail in most areas, including the pond area. Excavate archeological resources that are threatened.
- Continue to protect the Waterside Theatre area and Dough Cemetery shorelines pending results of future shoreline studies and environmental analysis.
- Implement the Outer Banks Group Fire Management Plan.
- Continue current resource collections management efforts.
- Continue current exotic plant management practices.
- Continue to conduct archeological surveys in compliance with Section 110 of the National Historic Preservation Act and the research requirement of Public Law 101-603. The NPS would continue to coordinate with the First Colony Foundation for on-going annual surveying.
- Continue natural resource monitoring activities.

Response to Catastrophic Loss

Catastrophic loss is defined by the NPS as loss of resources or facilities due to storms, floods, earthquakes, fires, or other disasters of natural or man-made origin. Under Alternative A, the NPS would continue current management practices. Natural processes would take precedence. However, resource management decisions due to shoreline erosion would be deferred to the shoreline erosion management plan and environmental assessment that is an element of all alternatives.
Estimated Costs and Staffing

Costs identified are for comparative purposes. The costs to implement Alternative A would not differ from the current annual costs for Fort Raleigh National Historic Site, with adjustments for inflation. The estimates are presented in year 2011 dollars, rounded to the nearest hundred dollars, and include:

- $871,900 annually for operations and maintenance; and
- $176,500 for one-time facility costs (removal of Prince and Beehive houses).

The total number of full-time equivalent staff would remain relatively constant at 4.95. The national historic site would continue to share staff with Cape Hatteras National Seashore and the Wright Brothers National Memorial. Therefore, the number of staff is not a whole number. Staff would continue to include full-time and seasonal interpretive and maintenance staff and law enforcement rangers. NPS volunteers would continue to provide important services at a negligible cost.

ALTERNATIVE B

Concept

Fort Raleigh National Historic Site would greatly expand the scope of its partnerships through greater partner involvement in interpretation of the Roanoke Voyages. Use of a revised cooperative agreement or other appropriate contract or mechanism would permit the partner to take on this responsibility. NPS staff would interpret other national historic site stories. By coordinating and expanding efforts among The Elizabethan Gardens, Roanoke Island Historical Association, and the NPS, visitors would be inspired to spend more time in the national historic site. Under Alternative B, the national historic site would:

- Emphasize a greater reliance (than under current conditions) on partnerships, cooperative agreements, and on-site visitor facilities and services to accomplish interpretation of the Roanoke Voyages. NPS interpretive focus would be on the national historic site’s other stories (Carolina Algonquians, Civil War, Freedmen’s Colony, Fessenden experiments).
- Provide orientation to the national historic site.
- Evaluate the feasibility of an expanded campus (new Roanoke Island Historical Association [partner]-funded visitor center/ indoor theater could be built near the current NPS visitor center) for partner-funded interpretation of the Roanoke Voyages and The Lost Colony outdoor symphonic drama.
- The NPS would also address compliance requirements for ground disturbing projects such as trails work, vegetation plantings, expansion of parking at headquarters (eight spaces), outdoor seating area, signage and waysides, and removal of the Prince and Beehive houses.

Many of the features of Alternative B would be the same as those already described for Alternative A. To reduce redundancy, references will be made to features in Alternative A and detailed descriptions will be provided only for new or different elements proposed for Alternative B.

Visitor Experience

All the studies and planning efforts to provide better access, safety, and visitor orientation on Roanoke Island would be the same as described in Alternative A. In addition, under Alternative B the national historic site would:
Summary

- Expand personal interpretive service program efforts.
- Inspire visitors to spend more time on-site through expanded interpretive efforts, facilities, partnering, marketing, and availability of food service (drinks and snacks) at the national historic site.
- Evaluate the feasibility of an expanded campus (new Roanoke Island Historical Association [partner]-funded visitor center/indoor theater could be built near the current NPS visitor center) for partner-funded interpretation of the Roanoke Voyages and The Lost Colony outdoor symphonic drama.
- Provide more emphasis on theatrical skills classes through enhanced partnerships and partner-funded facilities.
- Natural processes would take precedence; however, the NPS would take measures to protect sensitive resources such as Dough Cemetery and Waterside Theatre.
- Establishment of a small outdoor seating area to provide interpretive programming near the reconstructed earthworks.
- An NPS partner would fund and conduct a feasibility study and assessment of a range of alternatives for the design and construction of a partner-funded and operated visitor center annex. This annex would be in proximity to the existing Fort Raleigh visitor center and would provide additional program space, including, for example, exhibit space, restrooms, offices, storage, multipurpose rooms, and an indoor theater.

Management Zoning, Facilities, and Associated Visitor Activities

Under Alternative B, the maintenance facility, employee residences, water treatment plant, The Lost Colony administration building, and national historic site headquarters would be designated as part of the Administrative Zone. The Waterside Theatre and support buildings, ticket booth, and theater parking would fall within the Waterside Theatre Zone. The picnic area, national historic site entrance, Freedmen’s Colony Monument, restrooms, Virginia Dare Monument, Earthwork Fort, Freedom Trail trailhead, and visitor center would all fall within the Visitor Services Zone. The remainder of the national historic site, including the Thomas Hariot Nature Trail, would fall within the Resource Preservation Zone.

In addition, Alternative B would include the following:

- Trails. Under Alternative B the national historic site would extend the Roanoke Island multi-use trail (“Bike Path”) into the national historic site all the way to The Elizabethan Gardens, the Lindsay Warren Visitor Center, and to the Waterside Theatre parking area. A trail would be established parallel to the Freedom Trail or a new trail would be established along the entrance road that would complete the loop between the Freedom Trail and Highway 64. Interpretive signage would be provided and circulation patterns on trails would be clarified.

- Lindsay Warren Visitor Center. Under Alternative B, the national historic site would continue to maintain and staff the Lindsay Warren Visitor Center; however, the interpretive focus of that facility would change. Instead of interpreting the full array of the park’s themes, the NPS Lindsay Warren Visitor Center would interpret the Carolina Algonquians, Freedmen’s Colony, Civil War, and Fessenden radio experiments. The interpretation of the Roanoke Voyages
themes would be done by a partner in a new partner-constructed and operated annex facility. The NPS partner would be required to fund and conduct a feasibility study for this new facility.

**Expanded Interpretive Mission**

Under Alternative B the national historic site would:

- Rely more upon Roanoke Island Historical Association to tell the story of the Roanoke Voyages. The NPS would interpret other national historic site stories, including Carolina Algonquians, Freedmen’s Colony, Civil War, and Fessenden radio experiments.

- Provide self-guided interpretive opportunities using existing trails.

- Explore the use of the NPS Arts-in-Parks program. This program is offered in various parks across the country and invites visitors to experience the wonder of the park in combination with the wonder of the arts.

**Partnerships**

Under Alternative B the national historic site would maintain and enhance existing partnerships and expand partnerships for interpretive and theatrical education purposes.

**Resource Conditions**

Many elements of resource conditions would be the same as those described in Alternative A. In addition to those described under Alternative A, Alternative B would include the following:

- Establish vegetative screening along the road to the Waterside Theatre in order to minimize or screen the view of vehicles from visitors as they experience the nearby earthworks.

- Conduct one additional archeological investigation and data recovery between Pear Pad Road and the Heritage Point subdivision. This area has not been investigated to the extent that other areas of the national historic site have and it has the potential to yield information about island historical themes apart from the Roanoke voyages and the Lost Colony. These themes include the Native American culture, the Antebellum period, the Civil War, the Freedmen’s Colony, and the Works Progress Administration camp.

**Response to Catastrophic Loss**

Catastrophic loss is defined by the NPS as loss of resources or facilities due to storms, floods, earthquakes, fires, or other disasters of natural or man-made origin. Under Alternative B, the NPS would rebuild and protect existing facilities in place unless future extreme and/or successive catastrophic natural disasters warranted otherwise. However, resource management decisions due to shoreline erosion would be deferred to the shoreline erosion management plan and environmental assessment that is an element of all alternatives.

**Estimated Costs and Staffing**

The estimated costs to fully implement Alternative B provide a relative sense of the resources necessary to implement this alternative. The cost estimate is in year 2011 dollars and each item has been rounded to the nearest hundred dollars. The estimated annual operating costs would be $1,312,300. Staff costs would increase to address the salary of 3.35 additional full-time equivalent staff positions (for a total of 8.3 full-time equivalent staff positions). Because these positions would continue to be shared with
Cape Hatteras National Seashore and the Wright Brothers National Memorial they represent a percentage of staff time at the national historic site and are therefore not a whole number. Additional staff would include interpretive and maintenance staff, and law enforcement rangers.

One-time NPS facility costs would be approximately $931,300. This would include the following:

- Install new wayside exhibits in the vicinity of the visitor center;
- Install native vegetation plantings to screen the maintenance area and headquarters area;
- Expand the parking at headquarters (eight spaces);
- Extend the bike trail from Highway 64 to Waterside Theatre and The Elizabethan Gardens;
- Modify the existing trail system to make it accessible;
- Establish an outdoor seating area near the reconstructed earthworks;
- Add signs and waysides for the trail system north of Highway 64; and
- Remove the Prince and Beehive houses due to extreme shoreline erosion.

One-time, non-facility costs would include one archeological investigation and data recovery between Pear Pad Road and the Heritage Point subdivision.

**ALTERNATIVE C (NPS PREFERRED ALTERNATIVE)**

**Concept**

Public Law 101-603, November 16, 1990 broadened the interpretive and resource preservation purpose of Fort Raleigh National Historic Site. Alternative C would emphasize Section 3 of Public Law 101-603 which states that the “Secretary, in consultation with scholarly and other historic organizations, shall undertake research on the history and archeology of the national historic site, and the associated peoples and events.” The national historic site would accomplish this by increasing emphasis on research related to interpretive themes and legislative mandates. By coordinating and expanding efforts with research organizations and agencies, visitors would benefit by gaining increased knowledge of the national historic site and its multiple themes, both cultural and natural. Under Alternative C, the national historic site would:

- Enhance its partnership with the First Colony Foundation, a North Carolina 501(c) (3) non-profit organization dedicated to conducting archeological and historical research, combined with public education and interpretation. The First Colony Foundation is focused on research and education relating to the story of North Carolina and America’s beginnings with the attempts by Sir Walter Raleigh to establish English colonies at Roanoke Island in the 1580s under his charter from Queen Elizabeth I (First Colony Foundation website 2011).
- Establish partnerships with organizations that focus on natural and cultural resource topics.
- Include archeology as a significant aspect of the research program at the national historic site.
- Maintain the current visitor center as the primary visitor orientation facility.
- Implement NPS researcher-in-the-park program.
• Promote increased research use of collections at the Museum Resource Center.

• Increase research efforts with regard to the effects of climate change on natural and cultural resources in the national historic site.

Many of the features of Alternative C would be the same as those already described for Alternative A or Alternative B. To reduce redundancy, references will be made to features in those alternatives and detailed descriptions will be provided only for new or different elements in Alternative C.

Visitor Experience

All the studies and planning efforts to provide better access, safety, and visitor orientation on Roanoke Island would be the same as described in Alternative A. In addition, under Alternative C the national historic site would:

• Continue to centralize orientation and exposure to the national historic site’s expanded interpretive mission in the Lindsay Warren Visitor Center.

• Provide opportunities for visitors to interact in positive and meaningful ways with archeologists, historians, and researchers on-site.

• Encourage visitors to experience outlying resources of the site independently through more formal interpretive trails with themed areas.

• Enhance the visitor experience by participating in partner programs that offer interpretive programs at other off-site locations on Roanoke Island.

Management Zoning, Facilities, and Associated Visitor Activities

Under Alternative C, the maintenance facility, employee residences, water treatment plant, *The Lost Colony* outdoor symphonic production area, and national historic site headquarters would be designated in the Administrative Zone. The Waterside Theatre and support buildings, ticket booth, access roads, and theater parking would be designated within the Waterside Theatre Zone. The picnic area, national historic site entrance, Freedmen’s Colony Monument, restrooms, Freedom Trail trailhead, and visitor center would all fall within the Visitor Services Zone. The remainder of the national historic site, including the Thomas Hariot Nature Trail, would be designated as part of the Resource Preservation Zone.

Measures proposed to address shoreline issues would be the same as described for Alternative B. A small outdoor seating area would be established to provide interpretive programming near the reconstructed earthworks as described in Alternative B.

Trails. Under Alternative C the national historic site would determine the design, route, and other features of an improved loop trail in subsequent implementation planning and analysis. As under Alternative B, the national historic site would establish a parallel trail to the Freedom Trail or establish a new trail along the entrance road that would complete the loop between the Freedom Trail and Highway 64. Interpretive signage would be improved and circulation patterns on national historic site trails would be clarified.

Lindsay Warren Visitor Center. Under Alternative C the national historic site would:

• Maintain the Lindsay Warren Visitor Center as the primary orientation and interpretation center of the national historic site.

• Upgrade or replace exhibits and film(s), as funding allows, to accommodate the national historic site’s expanded interpretive themes.
Expanded Interpretive Mission

The interpretive staff dedicated to Fort Raleigh National Historic Site would be increased by 0.9 full-time equivalent staff members that would allow for increased interpretive activities. In addition, a full-time historian would be hired to address research needs.Existing needs for interpretive activities include staffing the visitor center, presenting programs, conducting school tours, presenting education programs in local and area schools, roving the national historic site, developing interpretive products, and researching the history and resources of the national historic site. Visitors have expressed the desire to see ranger-led programming be expanded, and this would be possible with expanded staffing levels.

Under Alternative C the NPS would:

- Expand upon partnerships with other organizations and agencies (such as the First Colony Foundation, Roanoke Island Festival Park, and North Carolina Maritime Museum) to tell the various stories of the area.
- Use the results of expanded research to enhance interpretive programs and media on all national historic site interpretive themes, both natural and cultural.
- Implement the NPS researcher-in-the-park program.
- Establish on-going archeological excavations with partner organizations.

Partnerships

Under Alternative C the national historic site would:

- Implement recommendations of the Fort Raleigh National Historic Site

Long-Range Interpretive Plan (NPS 2010a), which includes, among other recommendations:

- Improve partnership communication through regular communications meetings;
- Work more closely with the Roanoke Island Historical Association to integrate interpretive programming throughout the site;
- Work more closely with The Elizabethan Gardens to integrate interpretive programming and educational efforts on mutually suitable topics such as native plants and ecosystems;
- Continue hosting the First Colony Foundation for archeological research within the national historic site and exploring safe and appropriate ways to interpret these activities for visitors; and
- Establish regular communication between Fort Raleigh National Historic Site and Roanoke Island Festival Park in advance of their seasonal programming schedules to share ideas for improving the overall visitor experience on Roanoke Island.
- Expand partnerships with other historical and tourism-oriented organizations on Roanoke Island.
- Continue and enhance the partnership with the First Colony Foundation, and others, for interpretive, archival, and research purposes.
• Develop new partnerships with research organizations, such as the University of North Carolina Coastal Studies Institute, that could provide research efforts on other national historic site cultural and natural topics (beyond the Roanoke Voyages).

Response to Catastrophic Loss

Catastrophic loss is defined by the NPS as loss of resources or facilities due to storms, floods, earthquakes, fires, or other disasters of natural or man-made origin. Under Alternative C, the NPS would rebuild and protect existing facilities in place unless future extreme and/or successive catastrophic natural disasters warranted otherwise. However, resource management decisions due to shoreline erosion would be deferred to the shoreline erosion management plan and environmental assessment that is an element of all alternatives.

Estimated Costs and Staffing

The estimated costs to fully implement Alternative C provide a relative sense of the resources necessary to implement this alternative. The cost estimate is in year 2011 dollars and each item has been rounded to the nearest hundred dollars. Annual operating costs for Alternative C are estimated to be $1,222,500. Operation and maintenance costs would increase compared to Alternative A because of the need to maintain new facilities. Annual staff costs would increase by the salary of 2.98 full-time equivalent staff positions. Because these positions would continue to be shared with Cape Hatteras National Seashore and the Wright Brothers National Memorial, they represent a percentage of staff time at the national historic site and are therefore not a whole number. Additional staff would include a new interpretive national historic site guide, maintenance supervisor, law enforcement ranger, and a historian.

Other annual costs would include an annual archeological survey in response to the legislative mandate of Public Law 101-603 to undertake research on the history and archeology of the national historic site. Over time, some of this research may be funded by various partner organizations. These additional annual archeological surveys will be focused on the following areas:

Resource Conditions

Many elements of resource conditions would be the same as those described for Alternative A. In addition to those described under Alternative A, Alternative C would reduce heavily landscaped and maintained areas. The national historic site would restore these areas back to more natural conditions or convert them to low maintenance plantings.

Additional annual archeological investigations and data recovery would be conducted in the following locations: between the Elizabethan Gardens and the Dough Cemetery; between the Thomas Hariot trail and the Elizabethan Gardens; and at the Works Progress Administration camp. These areas have been investigated the least over the years and have the potential to yield information about island historical themes apart from the Roanoke voyages and the Lost Colony. These themes include the Native American culture, the Antebellum period, the Civil War, the Freedmen’s Colony, and the Works Progress Administration camp. The national historic site would partner with other organizations to increase investigations, treatment, and conservation of cultural resources.

Under Alternative C, the NPS would also address compliance requirements for ground disturbing projects such as trails work, vegetation plantings, expansion of parking at headquarters (eight spaces), outdoor seating area, signage and waysides, and removal of the Prince and Beehive houses.
• Between the Elizabethan Garden and the Dough Cemetery,

• Between the Thomas Hariot Trail and the Elizabethan Garden, and

• At the Works Progress Administration camp.

The NPS would continue to coordinate with the First Colony Foundation for ongoing annual surveying. The NPS would seek other sources of funding including grants, partners, and other sources to help defray costs such as additional resource investigations, research, and outreach efforts.

One-time facility costs would include:

• New exhibits in the vicinity of the visitor center;

• Native plantings to screen the maintenance and headquarters areas;

• Expansion of parking at headquarters (eight spaces);

• Modification of the existing trail system north of Highway 64 with a native surface;

• Establishment of an outdoor seating area near the reconstructed earthworks;

• Installation of additional signs and waysides for the trail system north of Highway 64; and

• Removal of the Prince house and the Beehive house due to extreme shoreline erosion.

At this time, there are no anticipated non-facility costs under Alternative C.

ENVIRONMENTAL CONSEQUENCES

The process of determining environmental consequences included identifying the regulations and policies applicable to each impact topic, and then defining the methods to conduct the analysis. Impact thresholds for each impact topic are defined in terms of negligible, minor, moderate and major; and whether they would be short-term, long-term or permanent, and adverse or beneficial effects. Cumulative effects were also assessed. The impact analysis compared future conditions under potential new types of management practices (action alternatives) to future conditions that would occur if current management practices were to continue unchanged (Alternative A, No-action). Climate change and weather related conditions are addressed as part of the affected environment.

When compared to Alternative A, action Alternatives B and C provide enhanced protective measures by establishing management zones, enhanced visitor services and interpretation, opportunity for limited new recreational and interpretive trails, and increased partnering efforts that would provide beneficial effects.

The following is a summary of impacts. Future actions/projects are subject to compliance with the National Environmental Policy Act, the National Historic Preservation Act and other appropriate laws and regulations. Future project environmental reviews will be site specific and address natural and cultural resources, visitor experiences, and park operations.

Impacts of Alternative A:

Although the Waterside Theatre area and Dough Cemetery shorelines would continue to be protected under Alternative A, the overall impacts of Alternative A on floodplains would result in long-term,
negligible, and adverse effects by allowing natural processes such as shoreline erosion to prevail in most areas, altering shoreline and floodplain functions. Under Alternative A, wetlands would benefit over the long-term due to protection as well as through the development of the Outer Banks Group shoreline erosion management plan and a technical assistance request made through the Natural Resource Program Center that would both provide direction for future wetland management. Continuation of existing national historic site management practices would benefit federally and state listed species of concern over the long- and short-term.

Impacts of Alternative A on vegetation communities would be both long-term beneficial and long- and short-term, negligible to minor, and adverse. Vegetation resources would benefit from development and implementation of management plans which would improve management efforts of the Fort Raleigh Maritime Forest Significant Natural Heritage Area and other natural communities. Invasive plant control measures would also continue. However, visitor-created trails and trampling of vegetation are likely to occur near points of interest, though these impacts would be minimal and localized. Demolition of the Prince and Beehive houses may cause temporary adverse impacts to surrounding vegetation, however these impacts would be largely reduced as these areas are returned over time to a more natural state.

With continuation of existing management practices into the future, two primary factors—human actions and natural processes—would contribute to permanent, negligible to minor adverse effects on the national historic site’s archeological resources from loss of data and sites or diminished site integrity. Adverse effects would be permanent because cultural resources are nonrenewable, and once damaged or lost, cannot be restored. Meanwhile, visitor education and national historic site management actions would result in long-term beneficial impacts.

Under Alternative A, there would be long-term beneficial impacts to ethnographic resources, the cultural landscape, and museum collections. Under an approved and funded project included in all alternatives, new exhibits would be designed and installed at the visitor center. These exhibits and enhanced interpretation would serve to strengthen associations of people to ancestors connected to events and historical eras. Furthermore, these improvements to the display and interpretation of museum collections would help ensure the “well-being” and long-term preservation of data and archival materials while improving the usefulness of the collection. An ethnographic overview and assessment would be completed to formally identify and document the ethnographic resources associated with the national historic site, resulting in long-term, beneficial effects associated with increased knowledge concerning these resources. Possible targeted shoreline erosion control measures to protect Dough Cemetery and, possibly, invasive species control measures would benefit the cultural landscape.

Historic structures would be impacted in both long-term, beneficial and permanent, negligible, adverse ways. Historic structures would generally remain as they exist now, undergoing routine maintenance (to arrest deterioration) with no substantial impact to their historic fabric, integrity, or character-defining features which would be a benefit. However, historic structures would be adversely affected by typical effects of aging and natural processes, and occasional disturbance from visitor use at the reconstructed earthworks. Past, on-going, and future NPS cultural resource management plans, the long-range interpretive plan, and other management plans for the Outer Banks Group and for Fort Raleigh National Historic Site would continue to benefit historic structures by providing park staff with the framework and
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guidance necessary to ensure continued, proper identification, evaluation, treatment, and interpretation of the historic structures within the national historic site.

The overall impact of Alternative A on visitor use and experience would be long-term, minor to moderate, adverse. Although management plans, ongoing programs and events, and expanded interpretive themes would be beneficial, traffic and parking constraints would increase due to popularity and interpretive activities would be limited as there would be no increases in interpretive staff. This would continue to challenge the ability of the existing staff to address this growing need. Additionally, the current staffing level is inadequate to conduct sufficient outreach to potential partners and to subsequently develop partnering agreements that would increase and enhance resource protection and interpretive programs, materials, and signage. Continued management actions under Alternative A would have an overall long- and short-term, moderate, adverse effect on national historic site operations due to increased workload demands and expectations on the current staffing level.

Impacts of Alternative B:

Under Alternative B, there would be long- and short-term, negligible, adverse effects to floodplains. Planned construction activities would avoid floodplains where possible. Mitigation measures would be applied if other management considerations exist which clearly favor locating an action in a regulatory floodplain, such as shoreline protection structures. There would be long- and short-term beneficial impacts to wetlands, species of concern, and vegetation. These natural resources would benefit from continued, existing resource management efforts and establishment of management zones that would reduce adverse impacts caused by new trail and facility development. Proposed increases in national historic site staff under Alternative B would allow for increased interpretation, maintenance, and enforcement to ultimately reduce visitor impacts on vegetation and natural communities.

Similar to Alternative A, the continuance of existing management practices into the future, two primary factors—human actions and natural processes—would contribute to permanent, negligible to minor adverse effects on the national historic site’s archeological resources from loss of data and sites or diminished site integrity. Meanwhile, visitor education and national historic site management actions would result in long-term beneficial impacts.

One additional archeological investigation would be conducted at the national historic site under Alternative B. These would lead to long-term, beneficial impacts because additional archeological sites could be identified, and because subsequent research and analyses could substantially add to both the regional and national knowledge of the people, places, and events associated with the history of the area.

There would be long-term beneficial impacts to ethnographic resources, the cultural landscape, and museum collections. Emphasis would be placed on an expanded interpretive mission that would likely strengthen existing linkages and relationships of visitors to ancestors connected to events and historical eras. An ethnographic overview and assessment would be completed to formally identify and document the ethnographic resources associated with the national historic site, resulting in long-term, beneficial effects.
associated with increased knowledge concerning these resources. Targeted shoreline erosion measures to protect Dough Cemetery would be included in Alternative B resulting in a long-term, beneficial impact to this contributing element of the cultural landscape. Proposed new construction projects under Alternative B would neither affect topography nor appreciably alter the landscape’s spatial organization, land use patterns, historic structures, circulation systems, or views and vistas. Under an approved and funded project, new exhibits for the visitor center would be designed and installed. These improvements to the display and interpretation of museum collections would help ensure the “well-being” and long-term preservation of data and archival materials while improving the usefulness of the collection. In addition, the aforementioned archeological investigations could increase holdings within the collection.

Similar to Alternative A, historic structures would be impacted in both long-term beneficial and permanent, negligible, adverse ways. Historic structures would generally remain as they exist now, undergoing routine maintenance (to arrest deterioration) with no substantial impact to their historic fabric, integrity, or character-defining features which would be a benefit. However, historic structures would be adversely affected by typical effects of aging and natural processes, and occasional disturbance from visitor use at the reconstructed earthworks. Management plans would continue to benefit historic structures by providing park staff with the framework and guidance necessary to ensure continued, proper identification, evaluation, treatment, and interpretation of the historic structures within the national historic site. Historic structures within the Resource Preservation Zone would be somewhat better protected from possible effects of any future activity than under Alternative A.

Visitor use and experience would be benefited over the long-term under Alternative B. All the studies and planning efforts to provide improved access, safety, and visitor orientation on Roanoke Island would be the same as described in Alternative A. In addition, expanded interpretive efforts, facilities, partnering, and availability of food services would retain more visitors on-site. Increased staffing levels, expanded partnerships, and potential use of the Arts-in-Parks program would provide increased opportunities to improve and maintain visitor satisfaction by addressing the issues identified during scoping.

The establishment of management zones under Alternatives B would provide effective means to improve operations by aiding national historic site staff in decision-making, resource management, and enforcement. Additional staffing proposed under Alternative B would provide the necessary maintenance efforts to implement resource plan recommendations resulting in overall long- and short-term, beneficial effects to park operations and facilities.

**Impacts of Alternative C:**

Alternative C would have long- and short-term, negligible, adverse effects on floodplains. Planned construction activities would avoid floodplains where possible. Mitigation measures would be applied if other management considerations exist which clearly favor locating an action in a regulatory floodplain, such as shoreline protection structures which must be located in the floodplain.

There would be long-and short-term beneficial impacts to wetlands, species of concern, and vegetation. These natural resources would benefit from continued, existing resource management efforts and establishment of management zones that would reduce adverse impacts caused by new trail and facility development. Alternative C would also reduce heavily landscaped and maintained areas, and
allow these areas to return back to natural conditions or convert them to low maintenance plantings. Proposed increases in national historic site staff under Alternative C would allow for increased interpretation, maintenance, and enforcement to ultimately reduce visitor impacts on vegetation and natural communities.

Alternative C would emphasize research on the history and archaeology of the national historic site and the associated peoples and events. Alternative C would provide a greater degree of protection of cultural resources than Alternative A by enhancing partnerships to collaboratively protect and preserve these resources at a greater capacity than the national historic site can do alone. Under Alternative C, formalized programs and directional signs would help reduce the potential for creation of informal trails, resulting in fewer incidents of unauthorized collecting and erosion of off-trail areas. Designation of the majority of the national historic site as a Resource Preservation Zone would provide for a greater emphasis on resource preservation compared to Alternative A by avoiding future ground disturbance within the management zone. The actions listed above would all have long-term, beneficial impacts on archeological resources. Proposed project area(s) would undergo collaborative cultural resource investigations prior to ground-disturbance and results of the investigations would help guide precise locations and design of these new facilities to ensure resource protection; therefore, any new construction activities may have permanent, negligible to minor, adverse impacts on archeological resources. Additional annual archeological investigations would be conducted at the national historic site under Alternative C. These would lead to long-term, beneficial impacts because additional archeological sites could be identified, and because subsequent research and analyses could substantially add to both the regional and national knowledge of the people, places, and events associated with the history of the area. It is anticipated that permanent, adverse impacts to archeological resources resulting from new construction activities under Alternative C would be negligible to minor. Known archeological sites would continue to be monitored and on-going archeological excavations with partner organizations would be established to broaden the national historic site’s knowledge base and increase awareness and stewardship. The addition of an NPS historian would be beneficial to all cultural resource areas.

Under Alternative C, there would be greater long-term beneficial impacts to ethnographic resources, the cultural landscape, and museum collections than with Alternative A. Research on the history and archaeology of the national historic site and the associated peoples and events would be emphasized. A greater reliance on partnerships and the addition of a historian to the staff would provide opportunities to create closer links with African Americans and Native Americans who have cultural ties to the area. An ethnographic overview and assessment would be completed to formally identify and document the ethnographic resources associated with the national historic site, resulting in long-term, beneficial effects associated with increased knowledge concerning these resources. Possible targeted shoreline erosion measures to protect Dough Cemetery would be included in Alternative C resulting in a long-term, beneficial impact to this contributing element of the cultural landscape. The proposed construction of new walking trails and a small outdoor seating area near the reconstructed earthworks would not appreciably alter overall vistas, historic structures, or circulation patterns that are included in the cultural landscape. Improved signage and interpretive programs would provide additional information to visitors that would instill greater stewardship of cultural resources. These actions would result in long-term beneficial impacts to the cultural landscape. Heavily landscaped and maintained areas would be reduced in
size and affected areas would be restored to natural conditions or converted to low maintenance plantings; because this would result in a reduction of Mission 66-era vegetative plantings, considered a contributing element of the cultural landscape, this action would have a long-term, minor, adverse impact on the cultural landscape. Under an approved and funded project, new exhibits for the visitor center would be designed and installed. These improvements to the display and interpretation of museum collections would help ensure the “well-being” and long-term preservation of data and archival materials while improving the usefulness of the collection, providing long-term benefits. In addition, planned archeological investigations could increase holdings within the collection. Expanded education, research and interpretive activity and increased partnering would improve the use of the collections and sharing of resources, knowledge and appreciation of museum collections. These actions would result in long-term benefits to these cultural resources.

Similar to Alternative A, historic structures would be impacted in both long-term beneficial and permanent, negligible, adverse ways. Historic structures would generally remain as they exist now, undergoing routine maintenance (to arrest deterioration) with no substantial impact to their historic fabric, integrity, or character-defining features which would be a benefit. However, historic structures would be adversely affected by typical effects of aging and natural processes, and occasional disturbance from visitor use at the reconstructed earthworks. Past, on-going, and future NPS cultural resource management plans, the long-range interpretive plan, and other management plans for the Outer Banks Group and for Fort Raleigh National Historic Site would continue to benefit historic structures by providing park staff with the framework and guidance necessary to ensure continued, proper identification, evaluation, treatment, and interpretation of the historic structures within the national historic site. However, partnerships would provide additional resources that would benefit historic structures through enhanced stewardship and increased educational awareness of historic structures within the national historic site.

Under Alternative C, there would be long- and short-term beneficial impacts to visitor use and experience as well as park operations and facilities. Visitor activities would continue to be centralized at the Lindsay Warren Visitor Center. Management plans, ongoing programs and events, and expanded interpretive themes would continue to provide benefits by providing better access, safety, and visitor orientation. There would be increased opportunities for visitors to interact with archeologists, historians, and researchers at the national historic site via increased research efforts and collaborative partnering as well as increased NPS staffing. A small outdoor seating area and creation of interpretive trails with themed areas would be established which would be a long- and short-term benefit to visitor experience, but would cause short-term, minor, adverse impacts to national historic site staff during construction activities.

The establishment of management zones under Alternatives C would provide effective means to improve operations by aiding staff in decision-making, resource management, and enforcement, providing long-term benefits. Increased opportunities within the national historic site under Alternative C would likely increase visitation. Thus, visitor use of new trails would increase maintenance and enforcement efforts over the long-term. While construction of limited new facilities (such as the expansion of parking at headquarters [eight spaces]) and demolition of the Prince and Beehive houses would create a greater demand on staff in the short-term, additional law enforcement and maintenance staff would reduce increased staffing demand associated with
peak summer visitation and new facilities; long-term maintenance demands would be reduced, with long-term, beneficial effects. Resources would be made available to cooperatively address operational needs through increased partnering with local historical, research, and tourism-oriented organizations.

THE NEXT STEPS

The Final General Management Plan / Environmental Impact Statement includes letters from governmental agencies, any substantive comments on the draft document, and NPS responses to those comments. Following distribution of the Final General Management Plan / Environmental Impact Statement and a 30-day no-action period, a record of decision approving a final plan will be signed by the NPS regional director. With the signed record of decision, the plan can then be implemented. Although this document provides the analysis and justification for future proposals at Fort Raleigh National Historic Site, this plan does not guarantee future NPS funding. Many actions would be necessary to achieve the desired conditions for natural resources, cultural resources, recreational opportunities, and facilities as envisioned in this plan. The NPS would seek funding to achieve these desired conditions. Fort Raleigh National Historic Site managers would continue to pursue other options, including expanding the service of volunteers, drawing upon existing or new partnerships, and seeking alternative funding sources, including the philanthropic community. This general management plan / environmental impact statement provides the framework from which these choices and decisions would be made.
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CHAPTER 1: PURPOSE AND NEED FOR A GENERAL MANAGEMENT PLAN

A GUIDE TO THIS DOCUMENT

Organization of this document is in accordance with the Council on Environmental Quality’s implementing regulations for the National Environmental Policy Act and the National Park Service’s (hereafter referred to as NPS) Director’s Order on “Environmental Analysis” (Director’s Order 12). Each of the five chapters is briefly described below.

Chapter 1: Purpose and Need for a General Management Plan sets the framework for this document. The chapter provides a description of the national historic site, why the plan is being prepared, and what needs it must address. It gives guidance for the alternatives considered, which are based on the legislated purpose of Fort Raleigh National Historic Site, the significance of its resources, special mandates and administrative commitments, servicewide mandates and policies, and other planning efforts in the area. This chapter also details the planning opportunities and issues raised during public meetings and planning team efforts. This chapter concludes with a statement of the scope of the environmental impact analysis — specifically, what impact topics were or were not analyzed in detail.

Chapter 2: Alternatives, including the NPS Preferred Alternative, begins by describing the management prescriptions and zones developed for future management of the national historic site. An overview of how the alternatives were developed and a description of each alternative are provided. Alternative A is the continuation of current management and trends in the national historic site (or the No-action Alternative). Action Alternatives B and C respond to issues identified during scoping of the general management plan.

In this chapter...
- Park Description
- Purpose, Need, and Scope of the Plan
- Foundation for Planning and Management, including the Park’s Purpose, Significance, Fundamental Resources and Values, and Interpretive Themes
- Future Plans and Next Steps

Mitigation measures proposed to minimize or eliminate the impacts of some proposed actions are described just before the discussion of future studies and/or implementation plans that will be needed. Evaluation of the environmentally preferable alternative is followed by a summary table of the alternative actions and the environmental consequences of implementing those alternative actions.

Chapter 3: Affected Environment describes those areas and resources that would be affected by implementing actions in the various alternatives. The topics addressed include cultural resources, natural resources, visitor use and experience, and national historic site operations and facilities.

Chapter 4: Environmental Consequences analyzes the impacts of implementing the alternatives. Each impact topic described in chapter 3 is analyzed. Methods used for assessing the impacts in terms of the intensity, type, and duration of each impact topic are outlined.

Chapter 5: Consultation and Coordination describes the history of public involvement and agency coordination conducted during the planning effort. Agencies and organizations that received copies of the document are also listed.
The appendices present supporting information for the document, along with references, a glossary of terms, legislation, and other pertinent technical documentation.

**INTRODUCTION**

This *Final General Management Plan / Environmental Impact Statement* presents and analyzes two alternative directions for future management and use of Fort Raleigh National Historic Site in addition to the No-action Alternative. Alternative C is the NPS Preferred Alternative. The potential environmental impacts of all alternatives have been identified and assessed.

General management plans are intended to be long-term documents that establish and articulate a management philosophy and framework for decision-making and problem solving in national parks. General management plans are intended to provide guidance over a 15- to 20-year period.

The detailed actions directed by general management plans or in subsequent implementation plans are intended to be accomplished over time. Implementation of the approved plan will depend on future funding and servicewide priorities. Approval of this general management plan does not guarantee that funding and staffing needed to implement the plan will be forthcoming. It is not likely that all proposed capital improvements in this plan will be totally implemented during the 15- to 20-year life of the plan. Larger capital improvements may be phased over several years, and full implementation of this plan could be many years into the future.

The term park is used to refer to all units of the National Park System, including national historic sites.

**BRIEF DESCRIPTION OF THE PARK**

The national historic site is located on the north end of Roanoke Island, situated between the coastal mainland of northeastern North Carolina and the “Outer Bank” or barrier island known as Bodie Island (Figure 1). The national historic site’s authorized boundary contains 512.93 acres (stated throughout as a rounded value of 513 acres).

The State of North Carolina deeded Fort Raleigh State Park on the north end of Roanoke Island to the United States on July 14, 1939, contingent upon its approval by Assistant Secretary of the Interior Oscar L. Chapman. The Secretarial Order of April 5, 1941, established Fort Raleigh National Historic Site to preserve land declared to be of national significance as a portion of the colonial settlement or settlements established in America by Sir Walter Raleigh between 1587 and 1591. The Order also recognized the agreement made between the Roanoke Island Historical Association and the United States for the annual presentation of Paul Green’s symphonic drama, *The Lost Colony*, in the open-air amphitheater at the national historic site.

Secretarial Order of April 5, 1941, established Fort Raleigh National Historic Site to preserve land declared to be of national significance.
Chapter 1: Purpose and Need for a General Management Plan

Regional Location Map

Fort Raleigh National Historic Site
U.S. Department of the Interior - National Park Service
Today, more than 70 years after the 1941 Secretarial Order, this public/private partnership continues with Roanoke Island Historical Association managing all aspects of *The Lost Colony* production while the NPS owns and maintains the Waterside Theatre, *The Lost Colony* administrative building, and all the other support buildings, facilities, paths, and parking areas.

The Secretarial Order of January 3, 1952 added two parcels to the national historic site as defined in the 1941 Secretarial Order. The Act of November 16, 1990 (Public Law [PL] 101-603) further expanded the authorized boundary of the national historic site to include an additional 335 acres, of which approximately 202 acres have been acquired. The remainder of these acres are either publicly owned by other state or Federal agencies or privately owned and the NPS has no authority to acquire private properties except from willing sellers or by donation. If future conditions made acquisitions of property desirable, and if donors or willing sellers and adequate funding were available, then additional land acquisition would be possible. The 1990 Act also broadened the purpose of the national historic site to include preservation and interpretation of: (1) the first English colony in the New World; and (2) the history of the Native Americans, European Americans, and African Americans who lived on Roanoke Island, North Carolina. Most of the land added to the park is forested and undeveloped. However, portions of the newly authorized area remain in private ownership and have been developed into a residential subdivision. The authorized boundary defines that area from which Fort Raleigh National Historic Site may purchase land from willing private owners if appropriated funds from Congress are made available. A map of the national historic site showing site boundaries is provided as Figure 2, Map of Fort Raleigh National Historic Site. Park legislation is provided in Appendix A.

The national historic site is unique in the NPS system because of the preservation and interpretation of the history of the first English attempts at colonization in the New World (from 1585 to 1587), and the history of Native Americans, European Americans, and African Americans on Roanoke Island. The Carolina Algonquians existed on Roanoke Island for nearly 1,000 years. Their culture and way of life diminished after contact with the English. Early colonization efforts, sponsored by Sir Walter Raleigh, ended with the disappearance of 116 men, women, and children (including two that were born in the New World). The fate of this “lost colony” remains a mystery to this day. Starting in 1862, Roanoke Island Freedmen’s Colony was established as a haven for a community of approximately 3,500 former slaves. It served as a living classroom designed to prepare former slaves for a new life of freedom, independence, self-governance, and integration into European-style community living. During the Civil War, the lives and livelihood of the people of Roanoke Island were affected by military presence and control. Although Roanoke Islanders were largely neutral during the Civil War, they could not escape its impacts, including war restrictions, changes in land ownership, and the increase in population due to the troops and Freedmen’s Colony. Roanoke Island’s rich history continued with the arrival in 1901 of Reginald Fessenden, an inventive pioneer who achieved his goal of quality wireless transmission and reception. Roanoke Island was selected as his base due to its central location for his experiments that ultimately changed the world forever.

The grounds of the national historic site include the physical location of headquarters for the NPS Outer Banks Group that consists of an administrative grouping of the following three park units: Cape Hatteras National Seashore, Fort Raleigh National Historic Site, and Wright Brothers National Memorial. Because of this administrative grouping, several of the facilities at the Fort Raleigh
National Historic Site and staff are shared amongst the other units such as the Museum Resource Center which provides a secure environment for collections of the Outer Banks Group; the Outer Banks Group administrative building; and the maintenance yard.

The **Outer Banks Group** consists of...
- Cape Hatteras National Seashore
- Fort Raleigh National Historic Site
- Wright Brothers National Memorial

The national historic site also preserves the amphitheater and support facilities associated with the continuing production of the nation’s first and longest running outdoor symphonic drama, *The Lost Colony*. The drama is entirely managed and produced by the Roanoke Island Historical Association, the National Park Service’s principal partner in this continuing endeavor since the establishment of Fort Raleigh National Historical Site. The national historic site also works closely with The Elizabethan Gardens, an internationally known botanical organization whose public gardens are surrounded by national historic site lands. The Elizabethan Gardens are not within the national historic site boundaries but are accessible only by driving through the national historic site. The national historic site is responsible for all roads, parking, security, etc. leading to the gardens. While the Waterside Theatre and the associated support buildings are owned and maintained by the NPS, the theater is operated by a private, not-for-profit organization (the Roanoke Island Historical Association) and, like the Elizabethan Gardens, is accessible only by driving through the national historic site. The agreement with the Roanoke Island Historical Association provides for the Roanoke Island Historical Association covering small repair costs necessary to the theater, while the national historic site is responsible for major infrastructure costs. Theater productions of *The Lost Colony* only occur during the summer season. Approximately 300,000 visitors come to the national historic site each year.

A residential development, called Heritage Point Community, occurs within the authorized national historic site boundary. While residents, workers, and other visitors must drive through the national historic site to access the subdivision, the road is not owned or maintained by the NPS.

**OVERVIEW OF THE NPS PLANNING PROCESS**

The National Parks and Recreation Act of 1978 (PL 95-625) and the Redwood Amendment of 1978 (PL 95-250 Sec. 101(6) (b)) require the preparation and timely revision of general management plans for each unit of the national park system. The NPS Management Policies 2006 call for each general management plan to “set forth a management concept for the park [and] establish a role for the unit within the context of regional trends and plans for conservation, recreation, transportation, economic development, and other regional issues.” Congress has also specifically directed the NPS, as part of the planning process, to address the following elements (16 United States Code [USC] 1a-7[b]):

- Measures for preservation of the area's resources;
- Indications of types and general intensities of development (including visitor circulation and transportation patterns, systems, and modes) associated with public enjoyment and use of the area, including general locations, timing of implementation, and anticipated costs;
- Identification of an implementation commitment for visitor carrying
capacities [now called user capacity as detailed in chapter 2]; and
• Indications of potential modifications to the external boundaries of the unit, and the reasons therefore.

The plan also integrates requirements of the National Environmental Policy Act into a general management plan/environmental impact statement. The process requires early identification of issues associated with proposed federal actions through a process called “scoping,” a description of “existing conditions” (a baseline described in chapter 3 used to evaluate effects of alternative actions), and an assessment of the potential adverse effects of the alternatives (detailed in chapter 4), including the “No-action” alternative. Mitigation measures to avoid, minimize, or reduce potentially adverse effects are also summarized in chapter 2. The NPS integrates requirements of the National Environmental Policy Act with the process for completing a general management plan. This process is defined under Director’s Order 12.

The **National Environmental Policy Act** was established to foster and promote the general welfare, to create and maintain conditions under which man and nature can exist in productive harmony, and fulfill the social, economic, and other requirements of present and future generations of Americans.

**PURPOSE OF THE PLAN**

The purpose of a general management plan is to ensure that each park has a clearly defined direction for resource preservation and visitor use. General management planning is the first tier of a staged planning process. It focuses on why the park was established and what resource conditions and visitor experiences should be achieved and maintained over time. Decisions about park site-specific actions will be deferred to implementation planning. The approved general management plan will provide guidance for Fort Raleigh National Historic Site managers for 15 to 20 years, assuming that conditions affecting management and operations remain relatively unchanged during this period. The purposes of this general management plan are as follows:

• Confirm the purpose, significance, and special mandates of Fort Raleigh National Historic Site.

• Clearly define resource conditions and visitor uses and experiences to be achieved.

• Provide a framework for national historic site managers to use when making decisions about how to best protect national historic site resources, how to provide quality visitor uses and experiences, how to manage visitor use, and what kinds of facilities, if any, to develop in/near the national historic site.

• Ensure that this foundation for decision-making has been developed in consultation with interested stakeholders and adopted by NPS leadership after an adequate analysis of the benefits, impacts, and economic costs of alternative courses of action.

Legislation establishing the NPS as an agency and governing its management provides the fundamental direction for the administration of Fort Raleigh National Historic Site (and other units and programs of the national park system). This general management plan will build on these laws and the legislation that established Fort Raleigh National Historic Site to provide a vision for the national historic site’s future. The section entitled, “Servicewide Mandates and Policies” within this chapter calls the reader’s attention to topics that are important to understanding the management direction at the national
historic site. The alternatives in this general management plan address the desired future conditions that are not mandated by law and policy and must be determined through a planning process.

The general management plan does not describe how particular programs or projects should be prioritized or implemented. Those decisions will be addressed in future, more detailed, planning efforts. All future plans will tier from the approved general management plan.

This general management plan has been developed in consultation with NPS program managers; other federal agencies; American Indian tribes; state, local, and regional agencies; interested organizations and individuals; and the general public (see detailed description in chapter 5). It is based on an analysis of existing and potential resource conditions and visitor experiences, environmental (including natural, cultural, and socioeconomic) impacts, and costs of alternative courses of action.

NEED FOR A GENERAL MANAGEMENT PLAN

A general management plan is needed to meet the requirements of the National Parks and Recreation Act of 1978 (PL 95-625) and NPS policy, which mandate development of a general management plan for each park. Fort Raleigh National Historic Site has never had a general management plan prepared in conformance with the requirements of PL 95-625 and current management policies and guidelines. The National Historic Site’s 1964 Master Plan does not address many of the issues facing the national historic site today. PL 101-603, November 16, 1990 broadened the boundaries and purposes of the national historic site. Guidance is needed to provide management direction and address issues associated with a national historic site much different than that envisioned in the 1960s. Interpretive and protective efforts up to 1990 focused on the 16th century English colony and its relationships with the local population. Today, the story of Fort Raleigh National Historic Site has expanded to include peoples and individuals whose lives and lifestyles span more than 420 years.

This General Management Plan provides broad direction for the national historic site’s future. It is needed to assist site managers in making purposeful decisions based on a deliberate vision of the national historic site. General management planning is needed to:

- Clarify the levels of resource protection and public use that must be achieved for the national historic site, based on the site-specific purpose and significance, as well as the body of laws and policies directing national historic site management.

- Determine the best mix of resource protection and visitor experiences beyond what is prescribed by law and policy based on the purposes of the national historic site, the range of public expectations and concerns, resources occurring within the national historic site, effects of alternative management plans on existing natural, cultural, and social conditions, and long-term economic costs.

- Establish the degree to which the national historic site should be managed to preserve and enhance its cultural and natural resources, and provide appropriate visitor experiences and recreation opportunities.

FOUNDATION FOR PLANNING AND MANAGEMENT

The general management planning process begins with development of a foundation statement based on the park’s enabling legislation and documenting the
Chapter 1: Purpose and Need for a General Management Plan

park purpose, significance, fundamental resources and values, and interpretive themes. The statement also includes a summary of any relevant laws and executive orders that apply to the national park system or to the individual park unit.

The foundation statement defines the legal and policy requirements that mandate the park’s basic management responsibilities, and describes the resources and values that are fundamental to achieving the national historic site’s purpose as well as those that are otherwise important. Although all units of the national park system must be managed in compliance with a large body of federal laws and policies, each park has its own specific purpose, established by Congress or the president, which provides the context for park management. The foundation statement is therefore a vital element of park planning and management.

The following paragraphs provide a summary of the elements of the foundation statement for Fort Raleigh National Historic Site, including park purpose, significance statements, fundamental and other important resources and values, interpretive themes, special mandates and administrative commitments that must be met, and a summary of laws and policies that must be considered.

Park Purpose

The park purpose defines the specific reason(s) for its establishment. Statements of the park’s purpose are based on a thorough analysis of the park’s legislation, presidential proclamation or executive order, and any studies prepared prior to its authorization. The park’s purpose may only be changed by Congress. The purpose of Fort Raleigh National Historic Site was defined by Congress in Public Law 101-603, November 16, 1990, as follows:

“(1) the first English colony in the New World; and
(2) the history of the Native Americans, European Americans, and African Americans who lived on Roanoke Island, North Carolina.”

Section 3 of Public Law 101-603 directs the Secretary to undertake research on the history and archeology of the park in consultation with scholarly and other historic organizations.

Park Significance

Significance statements capture the essence of Fort Raleigh National Historic Site’s importance to the nation’s cultural and natural heritage. Significance statements describe the park’s distinctiveness and help to place the park within its regional and national contexts. Defining the significance of the park’s resources helps managers make decisions that preserve the resources and values necessary to accomplish the park’s purpose. The following statements discuss why Fort Raleigh National Historic Site’s resources and values are important as a unit of the national park system. These statements were developed by the NPS planning team members during the course of preparation of the general management plan using available information. Fort Raleigh National Historic Site is significant because:

- The park protects and preserves the site where English explorers attempted to create England’s first colonial settlement in the New World (as well as the birthplace of Virginia Dare, the first English child born in the New World), preserves archeological evidence of these efforts, and provides for ongoing archeological efforts to resolve the mystery of the lost colony of 1587.

- The park is the site of the first sustained interaction between
Native Americans and the English; this interaction resulted in the first written cultural/ethnographic information on the Algonquian people and the first English-language documentation of the North Carolina coastal region.

**Ethnography**, part of cultural anthropology, is concerned with the peoples associated with parks, with their cultural systems or ways of life, and with the related technology, sites, structures, other material features, and natural resources. (NPS Director’s Order 28)

- The park is the birthplace and home of *The Lost Colony* theatrical production, the nation’s first outdoor and longest-running symphonic drama, produced and performed by Roanoke Island Historical Association since 1937.

- The park surrounds and partners with The Elizabethan Gardens, an internationally known botanical organization that expands Fort Raleigh National Historic Site’s English colonial themes with replicated 16th century English gardens.

- The park interprets Roanoke Island as the site of an innovative Freedmen’s Colony settled by 3,500 former slaves during and after the United States Civil War (1861-1865) and was listed as a National Underground Railroad Network to Freedom site in 2002.

- The park preserves the site of early wireless radio experiments (including the first quality wireless transmission and reception) by Reginald Fessenden on the north end of Roanoke Island between 1901 and 1902.

- The park, as a unit of the National Park System, is an active educational resource offering unique opportunities for visitors and educational groups to learn about past and present island geology and ecology, environmental stewardship, and preservation of natural and cultural resources.

- The park has a Significant Natural Heritage Area within its boundaries: a maritime deciduous forest. Significant Natural Heritage Areas are lands listed by the State of North Carolina Natural Heritage Program as being important for conservation of the state’s biodiversity. Significant Natural Heritage Areas contain one or more Natural Heritage elements – high-quality or rare natural communities, rare species, and special animal habitats.

- The park was listed on the National Register of Historic Places in 1966. Contributing elements of this designation include the Fort Raleigh Reconstructed Earthwork Fort, the Raleigh Colony/Virginia Dare Monument, the F.D.R. [Franklin Delano Roosevelt] Marker, Dough Cemetery headstones, and the Franklin D. Roosevelt Theater Marker.

The National Register of Historic Places is the official list of the Nation’s historic places worthy of preservation. Authorized by the National Historic Preservation Act of 1966, the National Park Service’s National Register of Historic Places is part of a national program to coordinate and support public and private efforts to identify, evaluate, and protect America’s historic and archeological resources.
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Fundamental Resources and Values

Fundamental resources and values are systems, processes, features, visitor experiences, stories, and scenes that warrant primary consideration during planning and management because they are critical to achieving the park’s purpose and maintaining its significance. These resources and values maintain the park’s purpose and significance, and if these resources are allowed to deteriorate, the park’s purpose and/or significance could be jeopardized. The following list of fundamental and other important resources and values is presented in no particular order of importance.

Archeological Resources & Museum Collections

Currently known archeological resources provide information and artifacts that are important to understanding the national historic site’s significance. The preservation, protection, and interpretation of these objects are critical to understanding the national historic site’s prehistory and history. Fort Raleigh National Historic Site’s as yet undiscovered archeological resources have the capacity to reveal further insights about the cultures and people that have occupied the national historic site’s boundaries. Fort Raleigh National Historic Site is, in essence, a significant archeological site with incomplete survey; consequently, the extent of the archeology is unknown, yet incredibly important to protect. Known and recovered resources include the following:

- Implements from Ganz’s Lab, crucibles, weights, glassware, and other artifacts.

Ganz’s Lab

- Ganz’s Lab location and the associated archeological resources indicate a scientific interest in North America by the first English colony at Roanoke Island.

- Location of Ganz’s Lab within the national historic site.

- Preeminent artifacts found on the site include:
  - Algonquian – elongated clay pot
  - Roanoke Voyages – red clay tile/shingle
  - Roanoke Voyages – large broadaxe
  - Roanoke Voyages – barrel well
  - Roanoke Voyages – concave brick
  - Roanoke Voyages – aglet
  - Roanoke Voyages* – copper necklace (*possible, but unproven link; could be from later contact)
  - Civil War – minie balls, bullets

The Lost Colony Drama

- The Lost Colony drama, created by Paul Green, is the first outdoor symphonic drama in the United States.

- The history of the production and the resulting museum collections, including a festival and a movie, are housed at the park.

- Strong ties to the community, State of North Carolina, and actors’ lineage are present and have persevered - continuing production despite hurricanes, fires, and suspension of the program during World War II.

- The Waterside Theatre and associated buildings and structures.

The Story of the Civil War, Underground Railroad, and the Freedmen’s Colony

- The stories of African Americans, including the Underground Railroad and Freedmen’s Colony on Roanoke Island.
- The stories of Civil War-related activities on Roanoke Island.
- Records and accounts that document the stories.
- Archeological resources, museum collections, and scientific value of the park that may pertain to these stories.

**Freedmen’s Colony**

- Items from recently donated collection (slate pencils, buttons, etc.).

**The Story of Reginald Fessenden**

- Boiler foundation.
- Stories of Fessenden’s experimentation.

**The Story of the First Attempted English Settlement in the New World**

- The stories of the first attempts at English colonization in the New World (commercial ventures, search for northwest passage, lumber, gold).
- The mystery surrounding the fate of the Roanoke voyages colonists, including Virginia Dare.
- The stories and resources relating to the first contact and interactions between Native Americans and English explorers and impact on both cultures (including the John White drawings and religious beliefs).
- Proximity of the Roanoke voyages colony and the characteristics and topography of the park that were chosen to attempt “colonization.”
- The impacts that English contact had on the Algonquian population locally and regionally.

**Other Important Resources and Values**

Other important resources and values that may not be fundamental to the park’s purpose and significance but are nevertheless determined to be particularly important considerations for general management planning are summarized in this section. Resources and values addressed include natural and cultural resources, recreational opportunities, and partnerships.

**Natural Resources**

- Salt Marsh: Portions of the park include productive salt marsh habitats that are important as nursery and spawning grounds for various types of commercially important fish and shellfish, as well as many species of birds, mammals, and other animals.

**Great Egret (Casmerodius albus)**

- Swamp Forest: This is a type of highly diverse and productive forested wetland that is part of the mosaic of interrelated wetland and upland habitats on Roanoke Island.
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- Atlantic Coast Intracoastal Marine Environment: This includes extensive shallow water tidal channels, mud flats, and aquatic habitats teeming with fish and shellfish that serve as important feeding habitat for marine mammals and birds.

- Maritime Evergreen Forest: This is an extremely rare natural community dominated by oak and pine trees that occurs only in the most stable, sheltered parts of barrier islands. The area within and adjacent to the Thomas Hariot Nature Trail of Fort Raleigh National Historic Site is being designated as a Significant Natural Heritage Area by the North Carolina Natural Heritage Program, which describes the forest as “one of the best maritime evergreen forests in the region.”

- Night Sky.

- Natural Soundscape.

Cultural Resources

- Works Progress Administration campsites.

- Dough Cemetery.

- Civilian Conservation Corps campsites, Camp Wirth.


- Franklin D. Roosevelt Theater Marker (viewing of The Lost Colony production).

- Raleigh Colony/Virginia Dare Monument.

- First Light of Freedom Memorial.

Recreational Opportunities

- Trails: The national historic site includes several trails (Thomas Hariot Nature Trail, Freedom Trail) that allow visitors to view and experience a wide variety of coastal North Carolina wetland, upland, and aquatic habitats.

- Shoreline activities: The national historic site provides opportunities to visit the shoreline of Roanoke Island, and view and experience a variety of coastal habitats.

- Nature viewing: Visitors can view wildlife in a variety of wetland, upland, and aquatic habitats.

Partnerships

- Roanoke Island Historical Association.

- The Elizabethan Gardens.

Interpretive Themes

Interpretive themes are ideas, concepts, or stories central to the park’s purpose, significance, identity, and visitor experience. The interpretive themes define concepts that every visitor should have the opportunity to learn. Themes also provide the framework for the park’s interpretive and educational programs, influence visitor experience, and provide direction for planners and designers of the park’s exhibits, publications, and audiovisual programs. Subsequent interpretive planning may elaborate on these themes. Interpretive themes are related to the general management planning process in the following ways:

- Help form the basis for alternatives and management zones that prescribe resource conditions and visitor experiences.
• Provide the foundation on which the park’s educational and interpretive program is based.

• Lead to the identification of services, resources, and experiences that should be accessible to visitors and the public.

• Help focus orientation services by identifying important experiences and resources that support themes.

• Lead to recommendations for interpretive and educational facilities, media, and services that are core to park purpose and facilitate emotional and intellectual connections with park resources and values.

• Guide the development of interpretive media and programs that help visitors connect tangible and intangible park resources and experiences to larger ideas, meaning, and values.

• Provide a framework for shared perspectives among visitors, stakeholders, and the public.

The following is a summary of the interpretive themes for the national historic site based on the *Fort Raleigh National Historic Site Long-Range Interpretive Plan* (NPS 2010a):

**English Colonization.** The 16th century voyages to Roanoke Island and the associated human losses were among England’s first steps, and failures, in the European race to increase power and wealth by capitalizing on the unknown resources of the New World in hopes of determining the course of Europe’s political and economic power.

• With the intent to gain a foothold in North America, England sent two scouting and exploration voyages to the Roanoke Island region, one in 1584 and one in 1585.

• Roanoke Island is the location of England’s first, and failed, attempt at colonization (including families) in North America in 1587.

• These colonizing efforts resulted in the first extended contact between Native Americans and English people.

• Two significant accomplishments of the Roanoke Voyages are the first extensive survey of the natural resources of the New World and the only first-hand, contemporary record of the Carolina Algonquian culture and people of the Roanoke Island region.

• Archeological evidence, supplemented by primary documents associated with the national historic site, increases our understanding of English activities on Roanoke Island, including English efforts to discover and profit from the region’s natural resources (plants, animals, minerals/metals).

• The ethnographical observations of Thomas Hariot and the detailed watercolor paintings by John White imprinted on many Europeans the first concept of native peoples of the New World.

• Although searched for in 1590, 1602, and intermittently over the next four centuries, little evidence has been found regarding the disappearance of the Roanoke voyages colonists of 1587, making it one of the greatest mysteries of American history.

• Virginia Dare was the first child born to English parents in the New World.
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• To make room on his ships for the 1586 settlers return to England, Sir Francis Drake may have unloaded several hundred black and Central American Indian slaves – the fate of these people is yet unknown.

The Carolina Algonquians. The Carolina Algonquian, a unique and viable culture that had existed for nearly 1,000 years, fell victim to both intended and unintended impacts of the European race to capitalize on the New World, to the point that the culture and its people were eventually extirpated except for archeological evidence and Roanoke Voyages-related narrative, ethnography, and art.

• After contact with the English, the Carolina Algonquian culture and way of life was diminished, largely due to disease and social disorder.

• The Carolina Algonquians’ way of life, family structure, physical appearance, style of dress, philosophical/religious beliefs, social structure, farming techniques, and land use, as well as their views of the English newcomers, have been preserved by the ethnographical observations of Thomas Hariot and the detailed watercolor paintings by John White.

• Continuing archeological and historical research on Roanoke Island confirms and builds upon the information gathered by Hariot, White, and others regarding Native American cultures, Native/English interactions, and cross-cultural influences.

The Lost Colony Drama. The Lost Colony drama, nurtured and treasured by the people of Roanoke Island since its inception, has endured as a dramatic commemoration of the Roanoke Voyages and as the nation’s longest-running outdoor symphonic drama.

• The Lost Colony, which was created in 1937 to memorialize the 1587 colony, is the nation’s first and longest-running outdoor symphonic drama.

• Authored by Pulitzer Prize winner Paul Green, the play is itself of historical interest as it mirrors the attitudes, fears, and beliefs of the Great Depression.

• Community efforts by grassroots organizations such as the Roanoke Island Historical Association led to the creation of the play, the building of the Waterside Theatre, and the sustained continuation of the drama through the decades.

• Founders of The Elizabethan Gardens, inspired by The Lost Colony, developed The Elizabethan Gardens as a living memorial to the Roanoke Voyages colonists on property leased by the Roanoke Island Historical Association.

• Working with local leaders, the federal government’s Depression-era Works Progress Administration and Civilian Conservation Corps provided substantial funding and work crews to construct the Waterside Theatre and other buildings housing The Lost Colony production.

• The Lost Colony symphonic drama occupies a notable place in the history of theater, music, and fine arts created for memorialization, remembrance, or commemoration.

• Today, The Lost Colony is a formal and informal training ground for young actors, costume designers, and theatrical students throughout the nation.
The Freedmen’s Colony. The Roanoke Island Freedmen’s Colony was a living classroom designed to prepare former slaves for a new life of freedom, independence, self-governance, and integration into European-style community living.

- Starting in 1862, Roanoke Island became a refuge for former slaves from throughout the region.
- In 1863, a formal Freedmen’s Colony was established on Roanoke Island by the Bureau of Refugees, Freedmen, and Abandoned Lands to train and educate the former slaves for a free and independent community.
- The Freedmen’s Colony on Roanoke Island, which by 1865 became a community of 3,500 men, women, and children, was a model colony because of its initial success as a fully functioning, planned community with a school, nuclear-family housing, skilled craftsmen, a boating and fishing economy, agriculture, local governance, places of worship, and more.
- The Colony was the collective effort of many individuals, black and white, including numerous freedmen who served the Union Army in the North Carolina Colored Troops, their families, the Congregational minister Horace James, teachers from the American Missionary Association, and donors and supporters who sent clothes, books, and other supplies.
- A vital aspect of the Freedmen’s Colony was the education of former slaves, including reading, writing, math, and trade skills, which provided them with the tools needed to be truly free and independent.
- Though the Colony was disbanded in 1867, many descendents of Freedmen’s Colony residents remain on Roanoke Island and help shape its culture.

The Civil War. As Civil War battles and activities associated with command of eastern North Carolina encroached upon the Outer Banks, the physical and philosophical isolation initially provided by the remoteness of Roanoke Island was broken, and the lives and livelihood of the people of Roanoke Island were impacted by military presence and control.

- The Union Army targeted Roanoke Island in its strategy to take the Outer Banks from the Confederates, close the sounds and inlets to commerce, and destroy railroad lines between Wilmington, North Carolina and Richmond, Virginia.
- After the Battle of Roanoke Island, the Union Army formed regiments of the U.S. Colored Troops from members of the local Freedmen’s Colony.
- Although Roanoke Islanders were largely neutral in the Civil War, they could not escape its impacts on their lives, such as war restrictions, changes in land ownership, and the increase in population due to the troops and Freedmen’s Colony.
- The history of Civil War-era Roanoke Island is enriched by the stories of military regiments like the Zouaves and individuals such as soldier artists, Confederate prisoners, and relic-hunting Union soldiers.

Reginald Fessenden. The large low-lying expanse of water and land and the childhood dream of voice over the air brought Reginald Fessenden to Roanoke Island, where, with perseverance and original experimentation, this inventive pioneer achieved his goal of quality wireless transmission.
transmission and reception; what he did here changed the world forever.

- The U.S. Weather Bureau hired Fessenden to improve wireless communication so as to provide better early storm warnings for ocean going vessels.

- Fessenden moved his family to Manteo while conducting his wireless radio experiments for 18 months from 1901 to 1902.

- Fessenden tested signal transmissions from a tower he erected on Roanoke Island to two of his other towers (one on Cape Henry, Virginia, and the other on Cape Hatteras, North Carolina); Roanoke Island was selected as his base because it was the center-point location.

- Fessenden’s success in sending and receiving a continuous wave voice radio transmission between Roanoke Island and Cape Hatteras in 1902 was crucial in developing a new technology to regulate electromagnetic signals – called amplitude modulation or AM – that eventually enabled clear voice transmissions over the airwaves.

Roanoke Island. The natural systems and processes of Roanoke Island, such as the “mother vine” from which the island’s culture and stories grew, greatly impacted human success or failure here.

- Roanoke Island is part of a natural system with distinct ecological communities of plants and animals and geologic processes characterized by change.

- The changing shoreline and forces of nature upon the island’s north end have both defined and complicated the research and understanding of the various stories of Fort Raleigh National Historic Site.

- The national historic site contains valued maritime evergreen forests and maritime deciduous forests that are important for conservation of the state’s biodiversity.

- The north end of Roanoke Island has served as the historic habitation area for humans due to the higher elevation.

- Buffered from the forces of the Atlantic Ocean’s wave energy and salinity, Roanoke Island offers a viable habitation zone for several species of hardwood trees, mammals, fresh water reptiles, birds, and flora.

- Roanoke Island is an important stop-over for migratory birds along the Atlantic Coastal Flyway.

Archeology. Tangible evidence unearthed through archeology serves as connections to the stories of past cultures and peoples of Roanoke Island, helps us more accurately place pieces in the national historic site’s multiple puzzles, and provides hope in the resolution of long-standing mysteries.

- Archeological projects (excavations or surveys) attempting to uncover
evidence of the Roanoke Voyages colonists at Fort Raleigh have occurred intermittently at the national historic site from 1887 to the present day.

- Talcott William of the University of Pennsylvania completed the earliest archeological work at the national historic site in 1887 and 1895.

- Archeological investigation by Jean C. Harrington (considered by many to be the “Father of Historical Archeology”) from 1947 to 1950, and again in 1953, provided the first archeological survey completed in the national historic site, and the discovery, confirmation, and construction of the earthwork believed at the time, but never confirmed, to be “Lane’s Fort.”

- Additional archeological investigation by Jean C. Harrington from 1963 to 1965 led to the discovery of a 16th-century “outwork” of unknown purpose.

- Archeological investigation by the NPS Southeast Archeological Center from 1981 to 1985 was inconclusive in locating the settlement site, but determined that the “outwork” was not the main fortification.

- Archeological investigation from 1991 to 1993 by Ivor Noel-Hume of the Virginia Company Foundation and the NPS Southeast Archeological Center led to discovery of the 1585-1586 “science center.” This led to speculation that the English colony settlement site is now beneath the sound, and led most researchers to conclude that the reconstructed earthwork is not “Lane’s Fort.”

- Archeological investigation by Nicholas Lucchetti in 1995 suggested that the earthworks were possibly built to protect the science center or Grenville’s fifteen men.

- Recent archeological investigations conducted by the First Colony Foundation resulted in the discovery of one of the earliest (17th century) permanent English-use sites yet found on the Outer Banks. This was provided through technological scans and assessments of national historic site grounds, and yielded objects from circa 800 A.D. to circa 1607.

- These archeological investigations have unearthed objects associated with other national historic site stories: Native Americans, Civil War, and early colonial times.

- The historical context, form, and function of the “Fort Raleigh” earthworks are subject to reevaluation and reinterpretation as developments progress by archeologists and ongoing research.

**Preservation and Stewardship.**

Preservation and stewardship of Fort Raleigh National Historic Site’s natural and cultural resources is critical so that future generations can access, enjoy, value, and learn from these valued resources.

- The national historic site’s vital archeological resources require preservation and stewardship by the national historic site, its partners, and the local community.

- Preservation and stewardship are accomplished through wise management practices, dedicated national historic site staff, cooperating partnerships, and national historic site neighbors who instill appreciation, pride, and responsibility in today’s visitors for the national historic site’s resources.
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- The public is encouraged to support stewardship of Fort Raleigh National Historic Site by becoming educated about its natural and cultural resources and informed on national historic site issues as well as by providing comments during national historic site planning processes.

- Preservation and maintenance programs for the national historic site’s cultural resources are complemented by partner and public involvement.

- All people, especially those in the local community, can be stewards and help make a positive impact on the national historic site.

- The national historic site is a unit of the National Park System, which preserves and protects our nation’s cultural and natural heritage and special places.

Special Mandates and Administrative Commitments

Special mandates are park-specific legislative or judicial requirements that expand upon or modify the park’s basic mission and purpose. The following are two special mandates that apply to the Fort Raleigh National Historic Site:

- The Secretarial Order of April 5, 1941 that established Fort Raleigh National Historic Site also recognized the agreement made between the Roanoke Island Historical Association and the United States to continue the annual presentation of Paul Green’s symphonic drama, *The Lost Colony*, in the open-air amphitheater at the national historic site. To meet this mandate, the Waterside Theatre and the associated buildings are owned and maintained by the NPS with Roanoke Island Historical Association coordination. The facilities are used by Roanoke Island Historical Association for several months (approximately from the first of May to late August) for *The Lost Colony* production. In addition to continuing to produce *The Lost Colony*, the Roanoke Island Historical Association produces and presents a variety of theatrical, musical, interpretive, and educational programs on-site in order to inspire, educate, and entertain the public; to enhance public awareness and support of the Roanoke Island Historical Association and *The Lost Colony*; and to generate the revenues necessary to support their primary production, *The Lost Colony*. Fort Raleigh National Historic Site would continue to work with Roanoke Island Historical Association under their cooperative agreement (H5191100020; United States Department of Interior 2010) regarding NPS-use of the Waterside Theatre and the associated buildings.

- Section 3 of PL 101-603 directs the Secretary of the Interior (through the NPS) to undertake research on the history and archeology of the historic site and its associated peoples and events, in consultation with scholarly and other historical organizations.

Administrative commitments are generally defined as agreements that have been reached through formal, documented processes with other federal or state agencies that refer to the co-management of specific natural or cultural resources. There are no administrative commitments at Fort Raleigh National Historic Site that meet this definition.
Summary of NPS Legal and Policy Requirements / Servicewide Laws and Policies

This section (expanded in Appendix B) identifies what must be done at Fort Raleigh National Historic Site to comply with federal laws and policies of the NPS. Many park management directives are specified in laws and policies guiding the NPS and are, therefore, not subject to alternative approaches. For example, there are laws and policies about managing environmental quality (such as the Clean Air Act, the Endangered Species Act, and Executive Order 11990 “Protection of Wetlands”); laws governing the preservation of cultural resources (such as the National Historic Preservation Act); and laws about providing public services (such as the Americans with Disabilities Act), to name only a few.

NPS management framework identified in 36 Code of Federal Regulations (CFR) §2 provides regulations regarding resource protection, public use, and recreation. In other words, a general management plan is not needed to decide, for instance, that it is appropriate to protect endangered species, control exotic species, protect archeological sites, conserve museum collections, or provide for handicap access. Laws and policies are already in place for those types of issues. Although attaining some conditions set forth in these laws and policies may have been temporarily deferred in the national historic site because of funding or staffing limitations, the NPS will continue to strive to implement these requirements with or without a new general management plan.

Some of these laws and executive orders are applicable solely or primarily to units of the national park system. These include the 1916 NPS Organic Act that created the NPS, the General Authorities Act of 1970, the Act of March 27, 1978, relating to management of the national park system, and the National Parks Omnibus Management Act (1998). Other laws and executive orders have much broader application, such as the Endangered Species Act, the National Historic Preservation Act, and Executive Order 11990 that addresses the protection of wetlands (see Appendix B).

The NPS Organic Act (16 USC §1) established the NPS and provides the fundamental management direction for all units of the national park system:

The service thus established shall promote and regulate the use of the Federal areas known as national parks, monuments, and reservations…by such means and measure as conform to the fundamental purpose of said parks, monuments and reservations, which purpose is to conserve the scenery and the natural and historic objects and the wild life therein and to provide for the enjoyment of the same in such manner and by such means as will leave them unimpaired for the enjoyment of future generations.

The National Park System General Authorities Act (16 USC §1a-1, et seq.) affirms that while all national park system units remain “distinct in character,” they are “united through their interrelated purposes and resources into one national park system as cumulative expressions of a single national heritage.” The act makes it clear that the NPS Organic Act and other protective mandates apply equally to all units of the system. Further, NPS management of park units should not “derogat[e]…the purposes and values for which these various areas have been established.”

The NPS also established policies for all units under its stewardship. These are identified and explained in a guidance manual entitled NPS Management Policies 2006. The “action” alternatives (Alternatives B and C) considered in this document incorporate and comply with the provisions of these mandates and policies.

Public Law 95-625, the National Park and Recreation Act, requires preparation and timely revision of a general management plan for each unit of the national park system. Section 604 of the National Park and
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Recreation Act outlines several requirements for general management plans, including measures for the protection of the area’s resources and “indications of potential modifications to the external boundaries of the unit and the reasons therefore.” NPS Management Policies 2006 adopted in 2006 reaffirm this legislative directive.

To understand the implications of an alternative, it is important to combine the servicewide mandates and policies with the management actions described in an alternative. Table 1 shows some of the most pertinent servicewide mandates and policy topics related to planning and managing Fort Raleigh National Historic Site. Across from each topic are the desired conditions the staff is striving to achieve for that topic; therefore, the table is written in the present tense. Appendix B expands on this information by citing the law or policy directing these actions and giving examples of the types of actions being pursued by NPS staff. The alternatives in this general management plan address the desired future conditions not mandated by law and policy, and must be determined through a planning process.

PUBLIC SCOPING

The National Environmental Policy Act requires that federal agencies engage in identification of issues with interested parties prior to initiating any project, such as preparation of a general management plan, which qualifies as a “major federal action.” Scoping is the solicitation of comments from agency staff, the public, and other government entities to identify significant issues related to the proposed action. An issue is defined as an opportunity, conflict, or problem regarding the use or management of public lands. Issues identified during scoping are used by NPS to determine the impact topics that need to be analyzed and to develop a reasonable set of alternatives to address these issues and concerns. A list of impact topics is provided in the next section, Impact Topics (Including Topics Considered and Dismissed). The scoping process undertaken during development of this document is described in “Chapter 5: Consultation and Coordination”.

The Fort Raleigh National Historic Site planning team completed the initial scoping phase of the planning process by meeting or corresponding with federal agencies, American Indian tribes, state and local agencies, and a variety of partners, stakeholders, and other interested parties. The result was a wide-ranging list of concerns and suggestions for NPS to consider in developing the general management plan. The full list was analyzed and issues and concerns identified during scoping that are carried forward for further analysis in the general management plan / environmental impact statement as well as those that will not be addressed are presented in the sections that follow.

The primary goal of scoping is to identify issues and determine the range of alternatives to be addressed. During scoping, the NPS staff provides an overview of the proposed project, including purpose and need and alternatives. The public is asked to submit comments, concerns, and suggestions relating to these goals.
Table 1: Desired Conditions and Applicable Laws and Policies Summarized by Impact Topic

| TOPIC                                                                 | Desired Conditions                                                                                                                                                                                                                                                                                                                                 | Applicable Laws and Policies                                                                 |
|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Relations with Private and Public Organizations, Owners of Adjacent Land, and Governmental Agencies | Fort Raleigh National Historic Site is managed as part of a greater ecological, social, economic, and cultural system. Good relations are maintained with adjacent landowners, surrounding communities, and private and public groups that affect, and are affected by, the national historic site. The national historic site is managed proactively to resolve external issues and concerns and ensure that national historic site values are not compromised. Because the national historic site is an integral part of a larger regional environment, the NPS works cooperatively with others to anticipate, avoid, and resolve potential conflicts, protect national historic site resources, and address mutual interests in the quality of life for community residents. Regional cooperation involves federal, state, and local agencies, neighboring landowners, and all other concerned parties. | NPS Organic Act  
NPS Management Policies 2006  
40 CFR 1500 (regulations for implementing National Environmental Policy Act), sections 1502.16, 1506.2(d))  
Director’s Order 17: Tourism  
Director’s Order 75A: Civic Engagement and Public Involvement |
| Natural Resources                                                     |                                                                                                                                                                                                                                                                                                                                                  | NPS Organic Act  
NPS Management Policies 2006  
Coastal Zone Management Act  
North Carolina General Statutes, Chapter 113A: Pollution Control and Environment  
North Carolina General Statutes, Chapter 139: Soil and Water Conservation Districts  
| Soils                                                                | The NPS actively seeks to understand and preserve the soil resources of Fort Raleigh National Historic Site, and to prevent, to the extent possible, the unnatural erosion, physical removal, or contamination of the soil, or its contamination of other resources. Natural soil resources and processes function in as natural a condition as possible, except where special considerations are allowable under policy.                                                                 |
### Table 1: Desired Conditions and Applicable Laws and Policies Summarized by Impact Topic (Continued)

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<th>TOPIC</th>
<th>Desired Conditions</th>
<th>Applicable Laws and Policies</th>
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| **Hydrology/Water Quality** | Surface water and groundwater are protected, and water quality meets or exceeds all applicable water quality standards. NPS and NPS-permitted programs and facilities are maintained and operated to avoid pollution of surface water and groundwater. | NPS Organic Act  
NPS Management Policies 2006  
Federal Water Pollution Control Act [The Clean Water Act of 1972 (as amended in 1977)]  
Executive Order 11514: Protection and Enhancement of Environmental Quality  
Executive Order 11990: Protection of Wetlands  
Executive Order 12088: Federal Compliance with Pollution Control Standards  
Director's Order 83: Public Health  
Title 15 A, Subchapter 4B and Subchapter 06H of the North Carolina Administrative Code  
North Carolina General Statutes, Chapter 113: Conservation and Development  
| **Floodplains**        | Natural floodplain values are preserved or restored. Long-term and short-term environmental effects associated with the occupancy and modifications of floodplains are avoided. When it is not practicable to locate or relocate development or inappropriate human activities to a site outside the floodplain or where the floodplain will be affected, the NPS:  
  • Prepares and approves a statement of findings in accordance with Director's Order 77-2.  
  • Uses nonstructural measures as much as practicable to reduce hazards to human life and property while minimizing impacts on the natural resources of floodplains.  
  • Ensures that structures and facilities are designed to be consistent with the intent of the standards and criteria of the National Flood Insurance Program (44 CFR 60). | NPS Organic Act  
NPS Management Policies 2006  
Clean Water Act Section 404  
Federal Coastal Zone Management Act  
Executive Order 11990: Protection of Wetlands  
Executive Order 11988: Floodplain Management  
Director's Order 77-2: Floodplain Management  
### Table 1: Desired Conditions and Applicable Laws and Policies Summarized by Impact Topic (Continued)

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<tr>
<th>TOPIC</th>
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| **Coastal Processes** | Natural shoreline processes (such as erosion, deposition, overwash, shoreline migration) will be allowed to continue without interference. Where human activities or structures have altered the nature or rate of natural shoreline processes, the NPS will, in consultation with appropriate state and federal agencies, investigate alternatives for mitigating the effects of such activities or structures and for restoring natural conditions. The NPS will comply with the provisions of Executive Order 11988 (Floodplain Management) and North Carolina coastal zone management plans prepared under the Coastal Zone Management Act. Any shoreline manipulation measures proposed to protect cultural resources may be approved only after an analysis of the degree to which such measures would impact natural resources and processes, so that an informed decision can be made through an assessment of alternatives. | NPS Organic Act  
NPS Management Policies 2006  
Coastal Zone Management Act of 1972  
Executive Order 11988: Floodplain Management  
Director's Order 77-2: Floodplain Management  
North Carolina Coastal Area Management Act of 1972  
| **Wetlands**    | The natural and beneficial values of wetlands are preserved and enhanced. The NPS implements a “no net loss of wetlands” policy and strives to achieve a longer-term goal of net gain of wetlands across the national park system through the restoration of previously degraded wetlands. The NPS avoids to the extent possible the long- and short-term adverse impacts associated with the destruction or modification of wetlands and avoids direct or indirect support of new construction in wetlands wherever there is a practicable alternative. The NPS compensates for remaining unavoidable adverse impacts on wetlands by restoring wetlands that have been previously degraded. | NPS Organic Act  
NPS Management Policies 2006  
Clean Water Act Section 404  
Coastal Zone Management Act of 1972  
Executive Order 11514: Protection and Enhancement of Environmental Quality  
Executive Order 11990: Protection of Wetlands  
Executive Order 11988: Floodplain Management  
Director's Order 77-1: Wetland Protection  
North Carolina General Statutes, Chapter 113: Conservation and Development  
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| **Endangered and Threatened Plants and Animals and their Habitats** | Federal and state-listed threatened and endangered species and their habitats are protected and sustained. Native threatened and endangered species populations that have been severely reduced in or extirpated from Fort Raleigh National Historic Site are restored where feasible and sustainable. | NPS Organic Act  
NPS Management Policies 2006  
Endangered Species Act of 1973  
40 CFR 1500 (regulations for implementing the National Environmental Policy Act)  
North Carolina General Statutes, Chapter 113: Conservation and Development  
North Carolina General Statutes, Chapter 113A: Pollution Control and Environment  
| **Fire Management** | Fort Raleigh National Historic Site fire management programs are designed to meet resource management objectives prescribed for the various areas of the national historic site and to ensure that the safety of firefighters and the public are not compromised. All wildland fires are effectively managed, considering resource values to be protected and firefighter and public safety, using the full range of strategic and tactical operations as described in an approved fire management plan. | NPS Organic Act  
NPS Management Policies 2006  
Federal Wildland Fire Management Policy (January 2001)  
Director's Order 18  
North Carolina General Statutes, Chapter 113: Conservation and Development  
| **General Natural Resources/Restoration** | Native species populations that have been severely reduced in or extirpated from Fort Raleigh National Historic Site are restored where feasible and sustainable. Populations of native plant and animal species function in as natural condition as possible except where special considerations are warranted. Migratory birds are important components of biological diversity. They are also important economically, and recreational activities associated with migratory birds contribute to the support of many communities. It is important for the NPS to: 1) focus on bird populations; 2) focus on habitat restoration where actions can benefit specific ecosystems and the migratory birds dependent on them; 3) focus on reducing the effects of climate change on migratory birds and their habitats; and 4) recognize that actions that may provide long-term benefits to migratory bird populations as a whole may result in short-term negative impacts on individual birds. | NPS Organic Act  
NPS Management Policies 2006  
Directors Order 77: Wetland Protection  
North Carolina General Statutes, Chapter 113: Conservation and Development  
North Carolina General Statutes, Chapter 113A: Pollution Control and Environment  
Migratory Bird Treaty Act of 1918  
Memorandum of Understanding between the U.S. Department of the Interior National Park Service and the U.S. Fish and Wildlife Service to Promote the Conservation of Migratory Birds, April 12, 2010 |
Table 1: Desired Conditions and Applicable Laws and Policies Summarized by Impact Topic (Continued)

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<tr>
<td>Ecologically Critical Areas or other Unique Natural Resources</td>
<td>The NPS will maintain, as parts of the natural ecosystems of the national historic site, all plants and animals native to the national historic site's ecosystems.</td>
<td>NPS Organic Act</td>
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<td>NPS Management Policies 2006</td>
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<td>Directors Order 77: Wetland Protection</td>
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<td>North Carolina General Statutes, Chapter 113: Conservation and Development</td>
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| Archeological Resources| Archeological sites are identified and inventoried and their National Register of Historic Places significance is determined and documented. Archeological sites are protected in an undisturbed condition unless it is determined through formal processes that disturbance or natural deterioration is unavoidable. When disturbance or deterioration is unavoidable, the site is professionally documented and excavated and the resulting artifacts, materials, and records are curated and conserved in consultation with the North Carolina State Historic Preservation Office. Mitigation may include a variety of measures ranging from avoidance to data recovery. Artifacts, materials, and records resulting from data recovery are curated and conserved as provided for in 36 CFR 79. Some archeological sites that can be adequately protected may be interpreted to the visitor. | NPS Organic Act  
NPS Management Policies 2006  
National Historic Preservation Act  
National Environmental Policy Act  
The Antiquities Act of 1906  
Archeological and Historic Preservation Act; Standards and Guidelines for Federal Agency Historic Preservation Programs pursuant to the National Historic Preservation Act (63 FR 20495-20508)  
Archeological Resources Protection Act  
Native American Graves Protection and Repatriation Act  
Executive Order 11593  
Executive Order 13007  
36 CFR 800  
36 CFR 79  
Director’s Order 4: Diving Management  
Director’s Order 12: Conservation Planning, Environmental Impact Analysis, and Decision-making and its accompanying Handbook  
Director’s Order 28: Cultural Resource Management Guideline  
Programmatic agreement among the National Park Service, the Advisory Council on Historic Preservation, and the National Conference of State Historic Preservation Officers (2008)  
Secretary of the Interior’s Standards and Guidelines for Archeology and Historic Preservation (1983)  
North Carolina General Statutes Chapter 70: Indian Antiquities, Archeological Resources and Unmarked Human Skeletal Remains Protection |
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<th>Applicable Laws and Policies</th>
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| **Ethnographic Resources** | Appropriate cultural anthropological research is conducted in cooperation with groups associated with Fort Raleigh National Historic Site. All ethnographic resources determined eligible for listing or listed on the National Register of Historic Places are protected. If disturbance of such resources is unavoidable, formal consultation with the state historic preservation officer, the Advisory Council on Historic Preservation, and with American Indian tribes as appropriate, is conducted. | NPS Organic Act  
NPS Management Policies 2006  
National Historic Preservation Act  
Archeological Resources Protection Act  
National Environmental Policy Act  
Native American Graves Protection and Repatriation Act  
American Indian Religious Freedom Act  
Programmatic agreement among the National Park Service, the Advisory Council on Historic Preservation, and the National Conference of State Historic Preservation Officers (2008)  
Director's Order 28B: Ethnography Program  
North Carolina General Statutes Chapter 70: Indian Antiquities, Archeological Resources and Unmarked Human Skeletal Remains Protection |
| **Cultural Landscapes** | Cultural Landscape Inventories are conducted to identify landscapes potentially eligible for listing in the National Register of Historic Places, and to assist in future management decisions for landscapes and associated resources, both cultural and natural.  
Cultural Landscape Reports are prepared to minimize loss of significant characteristics, features, and materials when existing information about the physical history and condition of a cultural landscape is inadequate to address anticipated management objectives, when impending development alternatives could have adverse effects, or to record actual treatment.  
The management of cultural landscapes focuses on preserving the landscape's physical attributes, biotic systems, and uses when those uses contribute to its historical significance.  
Treatments are based on sound preservation practices for the preservation, rehabilitation, restoration, or reconstruction of cultural landscapes is undertaken in accordance with the Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for the Treatment of Cultural Landscapes. | NPS Organic Act  
NPS Management Policies 2006  
National Historic Preservation Act  
Executive Order 11593  
36 CFR 800  
Director's Order 28: Cultural Resource Management Guideline  
Programmatic agreement among the National Park Service, the Advisory Council on Historic Preservation, and the National Conference of State Historic Preservation Officers (2008) |
### Table 1: Desired Conditions and Applicable Laws and Policies Summarized by Impact Topic (Continued)

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<tr>
<td>Museum Collections</td>
<td>All museum collections (prehistoric and historic objects, artifacts, works of art, archival documents, and natural history specimens) are identified and inventoried, catalogued, documented, preserved, and protected, and provision is made for access to and use of items in the collections for exhibits, research, and interpretation in consultation with traditionally associated groups. The qualities that contribute to the significance of collections are protected in accordance with established standards.</td>
<td>NPS Organic Act</td>
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<td>NPS Management Policies 2006</td>
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<td>Museum Properties Management Act of 1955 as amended, 16 USC 18f,18f-2—18f-3</td>
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<td>American Indian Religious Freedom Act</td>
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<td>Archeological and Historic Preservation Act</td>
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<td>Native American Graves Protection and Repatriation Act</td>
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<td>36 CFR 79 – Curation of Archaeological Collections</td>
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<td>36 CFR 800 – Advisory Council on Historic Preservation Regulations for the Protection of Historic Properties</td>
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<td>Director’s Order 24: NPS Museum Collections Management (2008)</td>
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<td>NPS Museum Handbook, Parts I, II and III</td>
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<td>Programmatic agreement among the National Park Service, the Advisory Council on Historic Preservation, and the National Conference of State Historic Preservation Officers (2008)</td>
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<td>ICMS User Manual</td>
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| **Historic Structures**    | Historic structures are inventoried and their significance and integrity are evaluated under National Register of Historic Places criteria. The qualities that contribute to the listing or eligibility for listing of historic structures on the National Register of Historic Places are protected in accordance with the Secretary of the Interior’s Standards and Guidelines for Archeology and Historic Preservation.                | NPS Organic Act
NPS Management Policies 2006
National Historic Preservation Act
National Environmental Policy Act
The Antiquities Act of 1906
Archeological and Historic Preservation Act; Standards and Guidelines for Federal Agency Historic Preservation Programs pursuant to the National Historic Preservation Act (63 FR 20495-20508)
Executive Order 11593
Executive Order 13007
36 CFR 800
Director’s Order 4: Diving Management
Director’s Order 28: Cultural Resource Management Guideline
Programmatic agreement among the National Park Service, the Advisory Council on Historic Preservation, and the National Conference of State Historic Preservation Officers (2008)
Secretary of the Interior’s Standards and Guidelines for Archeology and Historic Preservation (1983) |
| **Other Topics**            |                                                                                                                                                                                                                                                                              | NPS Organic Act
NPS Management Policies 2006
Telecommunications Act
16 USC 5
16 USC 79
23 USC 317
36 CFR 14
Directors Order 53 and Reference Manual 53, Special Park Uses |

Utilities and Communication Facilities
Neither Fort Raleigh National Historic Site resources nor public enjoyment of the national historic site are denigrated by nonconforming uses. No new nonconforming use or rights-of-way are permitted through the national historic site without specific statutory authority and approval by the director of the NPS or his representative, and are permitted only if there is no practicable alternative to such use of NPS lands. Telecommunication structures may be permitted in the national historic site to the extent that they do not jeopardize the national historic site’s purpose and resources.
## Table 1: Desired Conditions and Applicable Laws and Policies Summarized by Impact Topic (Continued)

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| Transportation to and within the Park | Visitors have reasonable access to the national historic site, and there are connections from the site to regional transportation systems as appropriate. Transportation facilities in the national historic site provide access for the protection, use, and enjoyment of site resources. They provide integrity of the surroundings, respect ecological processes, protect national historic site resources, and provide the highest visual quality and a rewarding visitor experience. The NPS participates in transportation planning forums that may result in links to the national historic site or impact site resources. Working with federal, tribal, state, and local agencies on transportation issues, the NPS seeks reasonable access to the national historic site, and connections to external and alternative transportation systems. When participating in transportation planning forums, NPS considers and evaluates the potential impacts of any proposed actions on the natural and cultural soundscape resources of the national historic site. | NPS Organic Act  
NPS Management Policies 2006  
National Park System General Authorities Act  
Directors Order 87, A, B, and D |
### Table 1: Desired Conditions and Applicable Laws and Policies Summarized by Impact Topic (Continued)

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| Visitor Use and Experience   | Fort Raleigh National Historic Site resources are conserved “unimpaired” for the enjoyment of future generations. Visitors have opportunities for types of enjoyment that are uniquely suited and appropriate to the superlative natural and cultural resources found in the national historic site. No activities occur that would cause derogation of the values and purposes for which the national historic site was established.  
For all zones, districts, or other logical management divisions within Fort Raleigh National Historic Site, the types and levels of visitor use are consistent with the desired resource and visitor experience conditions prescribed for those areas consistent with the unit’s purpose.  
National historic site visitors will have opportunities to understand and appreciate the significance of the national historic site and its resources, and to develop a personal stewardship ethic by directly relating to the resources.  
To the extent feasible, programs, services, and facilities in the national historic site are accessible to and usable by all people, including those with disabilities within an inviting atmosphere accessible to every segment of American society. | NPS Organic Act  
NPS Management Policies 2006  
National Park System General Authorities Act  
Americans with Disabilities Act  
Architectural Barriers Act of 1968  
Rehabilitation Act of 1973  
Americans with Disabilities Act of 1990  
Director’s Order 12: Conservation Planning, Environmental Impact Analysis, and Decision Making  
Director’s Order 42: Accessibility for Visitors with Disabilities in National Park Service Programs and Services  
28 CFR, Part 36  
43 CFR, Part 17 - Nondiscrimination in Federally Assisted Programs of the Department of the Interior. Subpart B: Nondiscrimination on the Basis of Handicap  
Title 36 CFR  
Draft Final Accessibility Guidelines for Outdoor Developed Areas (2009) |
| Public Health and Safety     | While recognizing that there are limitations on its capability and constraints imposed by the NPS Organic Act to not impair resources, the service and its concessionaires, contractors, and cooperators will seek to provide a safe and healthful environment for visitors and employees.  
The national historic site staff will strive to identify recognizable threats to safety and health and protect property by applying nationally accepted standards. Consistent with mandates and nonimpairment, the national historic site staff will reduce or remove known hazards and/or apply appropriate mitigative measures, such as closures, guarding, gating, education, and other actions. | NPS Organic Act  
NPS Management Policies 2006  
Council on Environmental Quality Regulations as part of the National Environmental Policy Act  
OSHA 29 CFR  
Director’s Order 30 and RM-30: Hazard and Solid Waste Management  
Director’s Order 50 and RM-50: Safety and Health  
Director’s Order 51 and RM-51: Emergency Medical Services  
Director’s Order 58 and RM-58: Structural Fire Management  
Director’s Order 83 and RM-83: Public Health |
General Management Plan Issues/Concerns to be Addressed

The NPS received approximately 122 comments and suggestions during scoping. Many of the comments and suggestions fell into the following 12 categories:

- Adequacy of administrative and visitor facilities.
- Management and coordination with Roanoke Island Historical Association on The Lost Colony production.
- Interpretation of the historical Freedmen’s Colony and Underground Railroad stops at Fort Raleigh National Historic Site.
- Cultural resource management in the form of archeological research.
- Management of the landscape at Fort Raleigh National Historic Site, including its boundaries and shorelines.
- Partnerships.
- The Elizabethan Gardens.
- Interpretation, programs, special events.
- African American history.
- Research needs.
- Shoreline erosion.
- Commercial services.

Issues and Concerns Not Addressed

Questions raised during scoping regarding possible expansion of Fort Raleigh National Historic Site were considered. The boundary was legislatively expanded by the 1990 legislation and much of the land under that expanded authorized boundary is either being developed as private residential subdivisions or is part of the U.S. Fish and Wildlife Service property on the southwest side of Highway 64 that has subsequently been developed for its administrative and visitor center facilities. During scoping, the U.S. Fish and Wildlife Service suggested a partnership to have a combined visitor center/administrative facility at the location; however, major enhancements to the existing NPS administrative and visitor center facilities at Fort Raleigh National Historic Site and establishment of a U.S. Fish and Wildlife Service facility eliminated that proposal from further consideration.

Not all issues or concerns raised by the public are included in this document. Some issues raised by the public were not considered because they:

- Are already prescribed by law, regulation, or policy.
- Would be in violation of laws, regulations, or policies.
- Were at a level that was too detailed for a general management plan and are more appropriately addressed in subsequent planning documents.

IMPACT TOPICS (INCLUDING TOPICS CONSIDERED AND DISMISSED)

Discussions during the early planning phases of preparation of this General Management Plan / Environmental Impact Statement identified the range of potential cultural and natural resources and elements of the human environment that might be of concern or might be affected by implementation of the plan. This review led to the selection of impact topics to be analyzed. The impact topics that were retained and dismissed, along with rationales, are presented in the following paragraphs. Relevant laws, regulations, and policies for each impact topic retained...
are described in Appendix B and are summarized in Table 1. The impact topics are described in accordance with Council on Environmental Quality guidelines for implementing the National Environmental Policy Act and NPS Management Policies 2006.

**Impact Topics Considered and Analyzed in Detail**

The range of planning issues and concerns that were discussed with the national historic site staff, stakeholders, and the general public during the planning process include those described as follows:

**Floodplains** – Construction of new facilities in floodplains could affect floodplain functions and values. These activities could include trail construction or maintenance activities, or other minor construction activities.

**Wetlands** – Freshwater and saltwater wetlands are located within national historic site boundaries and, therefore, could potentially be affected by management alternatives involving construction of new facilities. Avoidance of wetland impacts would be required.

**Vegetation** – Alteration to vegetation may occur where ground disturbance occurs, such as during trail construction or maintenance activities, expansion of parking at headquarters (eight spaces), or other minor construction activities.

**Endangered or Threatened Plants and Animals and Their Habitats (including those proposed for listing, or on state lists) (40 CFR 1508.27)** – Management alternatives involving construction activities have a potential to affect these resources. Several marine species that are federally listed in or near Fort Raleigh National Historic Site, including the West Indian manatee (*Trichechus manatus*), loggerhead sea turtle (*Caretta caretta*), and the shortnose sturgeon (*Acipenser brevirostrum*) would not be affected by management actions proposed in this general management plan. While these marine species of concern may have been historically known, presently known, or potentially occur in or near the national historic site, actions proposed under this general management plan would not directly or indirectly affect these listed species or adversely modify designated critical habitat of these special status species. Therefore, these species were not retained for further analysis. Additional information on dismissed species of concern is provided in Appendix C. State listed species are addressed.

**Visitor Use and Experience** – The proposed action would afford important new recreational opportunities and would have a measurable beneficial effect on visitor use and experience.

**Important Scientific, Archeological, and Other Cultural Resources, Including Historic Properties Listed or Eligible for the National Register of Historic Places (40 CFR 1508.27)** – This impact topic is subdivided as follows: archeological resources, ethnographic resources, cultural landscapes, museum collections, and historic structures. Actions associated with management alternatives could affect these resources. Any actions, including archeological investigations, that have the potential to affect cultural resources listed on or eligible for listing on the National Register of Historic Places would be undertaken after appropriate consultations with the NPS Regional Archeologist, the North Carolina State Historic Preservation Office, any American Indian tribes traditionally associated with park lands, other interested agencies or organizations, and the general public.

**Urban Quality, Historic and Cultural Resources, and Design of the Built Environment (40 CFR 1502.16)** - The National Environmental Policy Act and NPS
Chapter 1: Purpose and Need for a General Management Plan

Director’s Order 12 require that this impact topic be included in all environmental impact statements. Cultural resources are addressed as identified above.

Park Operations and Facilities – Park operations in terms of proposed personnel and facilities would change as a result of the proposed action. There is potential for impacts to park operations under the proposed alternatives.

Energy Requirements and Conservation Potential (40 CFR 1502.16); Natural or Depletable Resource Requirements and Conservation Potential (40 CFR 1502.16) - The National Environmental Policy Act requires that this impact topic be included in all environmental impact statements. The NPS reduces energy costs, eliminates waste, and conserves energy resources by using energy-efficient and cost-effective sustainable technologies. Energy efficiency is incorporated into the decision-making process during the design and acquisition of buildings, facilities, and transportation systems that emphasize the use of renewable energy sources. Actions proposed are minor in nature and require minimal commitment of depletable resources.

Impact Topics Considered but Not Analyzed in Detail

Some impact topics commonly considered during the planning process were not relevant to the development of the general management plan because: (a) implementing the alternatives would have no effect, beneficial effects, or a negligible effect on the topic or resource, or (b) the resource does not exist in the park. The impact topics considered, but not analyzed in detail are listed below with a brief rationale for each topic.

Natural Soundscape/Cultural Soundscape/Noise – Minor, temporary impacts to the natural soundscape would occur during any construction activity; however, long-term adverse impacts would be negligible. Existing conditions include human-made noise such as sounds from rehearsals and during productions of The Lost Colony, electric saws and other set construction activities, vehicle-related noises, speakers, etc. The existing environment has routine human disturbances to the natural and cultural soundscape. These disturbances are not expected to change during the next 15 to 20 years as the production of The Lost Colony continues into the future and support activities for this production would also continue into the foreseeable future. The natural soundscape consists primarily of bird calls, the wind, and water lapping along the shoreline. The cultural soundscape consists primarily of sounds from rehearsals and during productions of The Lost Colony, electric saws and other set construction activities, etc. The management actions proposed would not change existing conditions over the long term. Similarly, the minor expansions in footprint proposed (i.e., expansion of parking lot at headquarters [eight spaces]) are not expected to change existing conditions over the long term. Only negligible to minor effects would be likely to the natural and cultural soundscapes. Therefore, these impact topics were not further assessed.

Hydrology and Water Quality – Limited construction would result in a very limited amount of ground-disturbing activity and the associated potential for soil erosion and storm water runoff. Best management practices would be implemented to avoid potential effects to water quality and hydrology. Only negligible to minor effects would be likely.

Wildlife – Wildlife may avoid areas during periods where disturbances would occur during construction, play production, or noises associated with human activity. Where ground disturbance would occur, such as during trail construction or maintenance activities, expansion of parking at headquarters (eight spaces) or other minor construction activities, wildlife
may temporarily move away from activity conducted. Best management practices would ensure that wildlife was protected. Impacts would be considered temporary and negligible. Therefore, the wildlife impact topic was dismissed from further analysis.

**Coastal Processes** – In general, natural shoreline processes (such as erosion, deposition, overwash, shoreline migration) will be allowed to continue without interference by national historic site management activities. There would be alteration of the coastal environment related to storms, hurricanes, other natural events, and climate change. Where human activities or structures have altered the nature or rate of natural shoreline processes, the NPS will, in consultation with appropriate state and federal agencies, investigate alternatives for mitigating the effects of such activities or structures and for restoring natural conditions. The NPS will comply with the provisions of Executive Order 11988 (Floodplain Management) and North Carolina coastal zone management plans prepared under the Coastal Zone Management Act. As defined by the Coastal Zone Management Act, the actions subject to the enforceable polices of approved state management programs are any actions that (1) cause changes in the manner in which land, water, or other coastal zone natural resources are used, (2) cause limitations on the range of uses of coastal zone natural resources, or (3) cause changes in the quality or quantity of coastal zone natural resources.

Additional studies would be required to comprehensively address coastal processes in the national historic site. A separate evaluation of coastal erosion and the processes that cause erosion is needed to address this impact topic, and are included under future plans proposed by the national historic site.

Any shoreline manipulation measures proposed to protect cultural resources may be approved only after an analysis of the degree to which such measures would impact natural resources and processes, so that an informed decision can be made through an assessment of alternatives. Impacts to cultural resources are addressed under the appropriate cultural resources impact topics.

As climate changes occur over the coming decades, the globally averaged sea level may rise between 0.19 and 0.58 meters (7.5 inches and 1.9 feet) by the year 2100 (Meehl et al. 2007; Karl et al. 2009). Sea level rise in the vicinity of the Outer Banks is estimated to be 3 millimeters per year (USOCS 2011). The effects of climate change are addressed by impact topic in Chapter 3, “Affected Environment.”

**Aquatic Resources** – Aquatic resources in the adjacent estuary would not be adversely affected by construction activities or management actions associated with the proposed alternatives. The NPS would implement erosion and sediment control measures and use best management practices to control runoff from any soil disturbing activities. Management actions proposed would not adversely affect aquatic resources. (See also Coastal Processes.)

**Wilderness** - There are no designated or potential wilderness lands at Fort Raleigh National Historic Site. Therefore, this impact topic was dismissed from further analysis.

**Ecologically Critical Areas, Wild and Scenic Rivers, or Other Unique Natural Resources** (40 CFR 1508.27) – The majority of the national historic site has pending classification as a North Carolina designated Significant Natural Heritage Area. The North Carolina designated Significant Natural Heritage Area and habitat is assessed under the impact topic, Vegetation. Existing facilities are located within the draft boundaries of this area. There are no Wild and Scenic Rivers or other unique natural or ecologically critical resources identified within the national historic site.
Land Use – Management actions proposed are consistent with local land use plans as described under the Regional Plans subsection of this chapter. Therefore, this impact topic was dismissed from further analysis.

Geology – No significant or unique geologic features are located in or near the national historic site; therefore, there is no potential to affect geological resources.

Soils – Soils conditions would be changed where ground disturbance occurs, such as during trail construction or maintenance activities, expansion of parking at headquarters (eight spaces), or other minor construction activities. Best management practices would ensure that soil resources were protected and soil losses were negligible, therefore this impact topic was dismissed from further analysis.

Air Quality – The management alternatives involve minor and temporary construction activities and no change in air quality would result. Therefore, this impact topic was dismissed from further analysis. Under the alternatives, limited or no new facilities would be constructed and limited increases in staff are proposed. Emission sources at the national historic site would primarily be associated with operation of NPS vehicles, secondary emissions associated with operations of the Outer Banks Group Administrative Headquarters, visitor center facilities, and operation of the Waterside Theatre and support buildings. Greenhouse gas emissions occurring as a result of management actions under the alternatives have small potential effects. Therefore, the management alternatives contribution to greenhouse gas emissions was dismissed from further analysis.

Natural Lightscape (Night Sky) – There would be no adverse impacts to the natural lightscape over baseline conditions as a result of management actions. The existing conditions include lighting in the vicinity of national historic site facilities and at the Waterside Theatre. These conditions are expected to continue into the future in support of park operations, visitor access, and production of The Lost Colony. Implementation of management actions proposed would not adversely alter existing conditions or cause additional effects to the natural lightscape. Therefore, this impact topic was dismissed from further analysis.

Sacred Sites (Executive Order 13007) – There are no sacred sites recorded in the national historic site or in the immediate vicinity. Therefore, this impact topic was dismissed from further analysis.

Indian Trust Resources (ECM95–2) – Indian trust assets are owned by American Indians but held in trust by the United States. Indian trust assets do not occur within the national historic site or in the vicinity. Therefore, this impact topic was dismissed from further analysis.

Concessioners and Contracts – The management actions proposed would not impact potential concessioners and contracts at Fort Raleigh National Historic Site as there are no current or planned NPS concessions within the national historic site. Therefore, this impact topic was dismissed from further analysis.

Public Health and Safety (40 CFR 1508.27) – Management actions proposed in this general management plan would have negligible impacts on public health and safety. Impacts associated with traffic management during peak summer visitation are assessed under Park Operations. There were no public health and safety concerns raised during public and internal scoping for the general management plan. Over the past several years, the national historic site has had a few incidents with people tripping over uneven sidewalk sections or other constructed elements such as ramps and stairs. All these incidents resulted in repairs and replacements to correct the safety hazard. The average annual number of incidents requiring some type of aid is one
per year. Therefore, this impact topic was dismissed from further analysis.

**Economics and Socioeconomics** – Economic and socioeconomic effects of implementation of management actions proposed would not have a measurable impact on the local or regional economy. Local labor and resources would be used for projects during implementation of this plan, but the scale of the proposed construction is such that any impacts would be short-term and negligible or short-term and beneficial. Therefore, this impact topic was dismissed from further analysis.

**Transportation** – Local and regional transportation would not be affected by management actions proposed. Visitors have reasonable access to the national historic site, and the site would coordinate with local transportation providers for connections from the national historic site to regional transportation systems as appropriate. Parking facilities in the national historic site provide access for the protection, use, and enjoyment of resources at the national historic site. The NPS will continue to participate in transportation planning forums that may result in links to the national historic site or impact resources at the national historic site. Working with federal, state, and local agencies on transportation issues, the NPS would continue to seek reasonable access to the national historic site, and connections to external and alternative transportation systems. Therefore, this impact topic is dismissed from further consideration.

**Socially or Economically Disadvantaged Populations (see Environmental Justice Executive Order 12898 for more information)** – Executive Order 12898, “General Actions to Address Environmental Justice in Minority Populations and Low-Income Populations,” requires that all federal agencies address the effects of policies on minorities and low-income populations or communities as defined in the Environmental Justice Guidance (July 1996). None of the alternatives would have disproportionate health or environmental effects on populations of concern. Impacts on the socioeconomic environment due to the implementation of actions proposed in the alternatives would be negligible and such impacts would not be expected to substantially alter the physical or social structure of nearby communities in Manteo or Roanoke Island. Therefore, this impact topic was dismissed from further analysis.

**Accessibility for Individuals with Disabilities** – In the context of activities and park operations, facilities and services would be required to meet the guidelines under the Americans with Disabilities Act. No appreciable effects to Americans with disabilities would be anticipated under any of the alternatives. Beneficial effects would result from addressing handicapped parking for any new parking spaces allocated associated with the expansion of parking at headquarters (eight spaces), as well as consideration of access for those with disabilities during trail design and construction. Therefore, this impact topic was dismissed from further analysis.

**Mineral and Agricultural Resources** – The lands within the Fort Raleigh National Historic Site area are not available for farming or mineral extraction; no adverse impacts on these resources are predicted. Therefore, this impact topic was dismissed from further analysis.

**Prime and Unique Agricultural Lands** (40 CFR 1508.27) – Prime farmland has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber, and oilseed crops. Lands in the vicinity of the Fort Raleigh National Historic Site do not meet the definition of prime and unique agricultural lands. Therefore, this impact topic was dismissed from further analysis.
Chapter 1: Purpose and Need for a General Management Plan

RELATIONSHIP OF OTHER PLANNING EFFORTS TO THIS GENERAL MANAGEMENT PLAN

Many projects and plans that the NPS and other organizations have in place, are in progress, or planned for the near future, may affect the management direction and resulting actions proposed in this general management plan. The general management plan may also have an effect on other local, state or federal government plans being implemented in the surrounding area and region. As part of the analysis and consideration of potential impacts, the planning team, therefore, identified the following relevant planning efforts. The list is not comprehensive, but provides an overview to show the connection between this general management plan and other pertinent planning efforts.

Regional Plans

Dare County Land Use Management Plan (Approved in 2011): The State of North Carolina requires all local governments within the twenty county coastal region to prepare and periodically update land use plans for use in the review and issuance of the Coastal Area Management Act major permit applications and federal consistency reviews. The Dare County Land Use Plan is a policy document intended to be used by the Dare County Board of Commissioners, Dare County Planning Board, and Dare County Planning Department to guide growth and development in unincorporated Dare County. The land use plan contains a vision statement and general objectives for the community, policies and implementation strategies to support the vision statement and objectives, demographic information and population projections, associated maps of existing land use patterns, and desired future land use patterns. The Dare County Land Use Plan applies to the unincorporated portions of Dare County (Hatteras Island, Mainland, Colington, Martins Point, and Roanoke Island outside the boundaries for the Town of Manteo) (Dare County 2010a).

This general management plan is consistent with the Dare County Land Use Management Plan.

Dare County Community Transportation Service Plan: The plan is prepared under a partnering agreement between Dare County and the North Carolina Department of Transportation. The purpose of the plan is to ensure community transportation systems in North Carolina make strategic responses to the future mobility needs of the general public and targeted populations in their service areas. The plan documents the unique transportation-related challenges associated with Dare County’s coastal area; identifies, evaluates, develops, and recommends strategies that enhance the mobility options for targeted populations and the general public; and reviews the current performance and organizational direction of the public transportation system and recommends alternative operational or managerial strategies that increase mobility options for passengers, and improves the efficiency and effectiveness of the organization and transportation services (Dare County 2010b).

The NPS participates in transportation planning forums that may result in links to the national historic site or impact national historic site resources. Working with federal, state, and local agencies on transportation issues, the NPS seeks reasonable access to the national historic site, and connections to external and alternative transportation systems. Implementation of the management actions proposed would not conflict with the Dare County Community Transportation Service Plan.

Other NPS Plans

all NPS areas with vegetation capable of supporting fire develop a Fire Management Plan. Resource Management Plans for Cape Hatteras National Seashore (1984), Wright Brothers National Memorial (1996), and Fort Raleigh National Historic Site (1998) address the use of fire to achieve resource management objectives. The Fire Management Plan implements the selected management actions from the appropriate national historic site’s Resource Management Plan or Resource Stewardship Strategy coupled with guidance provided by the general management plan for each area. The purpose of the Fire Management Plan is to outline actions that will be taken by the Outer Banks Group in meeting the fire management goals established for the area (NPS 2001).

Fort Raleigh National Historic Site Historic Resources Management Plan: This plan was prepared in 1977 and updated in 1979. It provides a plan for management of historic resources in the national historic site. The plan describes the historical setting of the national historic site, procedures for management of historic scene and resources, a schedule for management actions, a program of special management projects, an historical studies plan, and a summary of research proposals.

Fort Raleigh National Historic Site Long-Range Interpretive Plan: This plan is required for each national park and was prepared in 2010. The Fort Raleigh National Historic Site Long-Range Interpretive Plan is one of three documents that comprise a national historic site’s Comprehensive Interpretive Plan, the other two being the Annual Interpretive Implementation Plan and the Interpretive Database. The Fort Raleigh National Historic Site Long-Range Interpretive Plan helps guide national historic site management for a period of five to seven years in reaching the realistic vision of the future for interpretive services and media. It guides the interpretive staff in their efforts to orient visitors to the national historic site and interpret the site’s human and natural history stories. Achievement of the plan’s recommendations depends on management support, NPS funding, and the positive initiative of both the NPS and its partners.

NEXT STEPS IN THE PLANNING PROCESS

The Final General Management Plan / Environmental Impact Statement includes letters from governmental agencies, any substantive comments on the draft document, and NPS responses to those comments. Following distribution of the Final General Management Plan / Environmental Impact Statement and a 30-day no-action period, a record of decision approving a final plan will be signed by the NPS regional director. With the signed record of decision, the plan can then be implemented. Although this document provides the analysis and justification for future proposals at Fort Raleigh National Historic Site, this plan does not guarantee future NPS funding. Many actions would be necessary to achieve the desired conditions for natural resources, cultural resources, recreational opportunities, and facilities as envisioned in this plan. The NPS would seek funding to achieve these desired conditions. Fort Raleigh National Historic Site managers would continue to pursue other options, including expanding the service of volunteers, drawing upon existing or new partnerships, and seeking alternative funding sources, including the philanthropic community. This general management plan / environmental impact statement provides the framework from which these choices and decisions would be made.

IMPLEMENTATION OF THE PLAN

The implementation of the approved plan will depend on future funding. The approval of a plan does not guarantee that the funding and staffing needed to implement the plan will be forthcoming. Full implementation of the approved plan could be many years in the future.
Implementation of the approved plan also could be affected by other factors. Once the general management plan has been approved, additional feasibility studies and more detailed planning and environmental documentation would be completed, as appropriate, before any proposed actions can be carried out. For example:

- Appropriate permits would be obtained before implementing actions that would impact wetlands.

- Appropriate federal and state agencies would be consulted concerning actions that could affect threatened and endangered species.

- The state historic preservation office, American Indian tribes traditionally associated with park lands, other interested agencies or organizations, and the general public would be consulted concerning actions that could affect cultural resources.

- Appropriate National Environmental Policy Act documentation would be prepared.

The general management plan does not describe how particular programs or projects should be prioritized or implemented. Those decisions will be addressed during the more detailed planning associated with strategic plans, implementation plans, etc. All of those future, more detailed plans will tier from the approved general management plan and will be based on the goals, future conditions, and appropriate types of activities established in the approved general management plan. Actions directed by general management plans or in subsequent implementation plans are accomplished over time. Budget restrictions, requirements for additional data or regulatory compliance, and competing national park system priorities could prevent immediate implementation of many actions. Major or especially costly actions could be implemented 10 or more years into the future.
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