Fundamental Resources and Values

- ¹ Fundamental resources and values are
- ² systems, processes, features, visitor
- ³ experiences, stories, scenes that warrant
- ⁴ primary consideration during planning and
- ⁵ management because they are critical to
- 6 achieving the monument's purpose and
- 7 maintaining its significance. It is these
- 8 resources and values that maintain the park's
- ⁹ purpose and significance, and if these
- ¹⁰ resources are allowed to deteriorate, the park
- ¹¹ purpose and/or significance could be
- ¹² jeopardized. The following list is presented in
- ¹³ no particular order of importance.

¹⁴ The military significance of the battle

- The naval blockade and the series of fortifications and batteries, like
 Battery Hamilton, led to the closure
 of the Port of Savannah and the cutoff
 of Fort Pulaski from resupply.
- The Union army's capture of the fort
 and its subsequent use of the fort to
 kept the Port of Savannah closed.
- The geography and other land and
- ²⁴ water features of the area facilitated
- ²⁵ the Union strategy.

²⁶ The history of the development and

- evolution of coastal defenses in the UnitedStates
- The fort structure is characterized by 29 its well-preserved condition and 30 unique construction (primarily its 31 shape and placement on the site). 32 The fort is in an excellent state of 33 preservation, virtually unaltered from 34 its original design. 35 The national monument is the site of 36 • Fort George, a colonial defensive 37 structure begun in late 1761. 38 The national monument is the site of •
- I he national monument is the site of
 Fort Greene, a First System fort
 begun in 1794.
- The 1869-1872 modernizations to
 Fort Pulaski (remodeling of the

demilune, installation of underground magazines and passageways and constructing gun emplacements) demonstrate the evolution of military strategy and technology.

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• The national monument is the site of Battery Hambright, a Spanish American War era structure.



HISTORIC MAP (HENRY MEHLES) OF FEDERAL BATTERIES

⁵³ The story of military weaponry and tactics

- The fort structure itself, particularly the southeast angle, shows the damage clearly.
- Original rifled cannons, believed to have been used by federal troops on Tybee Island during the siege and reduction of the fort, now silent, serve as potent interpretive tools for both historian and monument visitor alike.
- The story includes the hasty surrender (April 11, 1862) by Colonel Olmstead within 30 hours of the commencement of hostilities, as well as the groundbreaking application of military technology, the use of rifled cannons against masonry fortifications.
- The geography, landscape, and landforms of the area favored the Union attack strategy and tactics. (Lack of trees on Cockspur provided clear view for the Union side while trees on Tybee Island provided concealment for the Union batteries).

- Robert E. Lee visited Fort Pulaski in • 1861 and assessed the defensive 2 position of the fort as adequate to 3 withstand attack by cannon from 4
- Tybee Island. 5

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| 6 | African American connections to the site |
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| 8 | • Fort Pulaski's history includes the |
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| 9 | story of one of the earliest efforts to |
| 10 | free enslaved African Americans |
| 11 | months before Lincoln's |
| 12 | emancipation proclamation. General |
| 13 | David Hunter's efforts influenced |
| 14 | Lincoln and were designed to help |
| 15 | former slaves achieve full citizenship |
| 16 | through military service, education, |
| 17 | and the practice of subsistence |
| 18 | farming rather than cash crops such |
| 19 | as cotton. |



FREED MEN AND WOMEN AT FORT PULASKI

Stories about the mistreatment of prisoners 20 of war 21

- The national monument is the burial 22 location for the 13 people who died 23 during winter 1864–1865. 24
- Records and accounts of the events 25 help illuminate those events for modern visitors.
- Archeological evidence of the 28 cemetery contributes to interpretive 29 programming. 30
- The fort was used as a prison. 31

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- Robert E. Lee's connections and 32
- contributions to the site 33

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- Lee designed the dike system and the associated drainage ditches and canals.
 - The young Lieutenant supervised construction of the village used by workers, the principal wharf, and cisterns, some of which survive today.
 - Lee prepared surveys that determined the fort's location.
 - Lee's connections include stories about his experience in surviving the intense physical environment.
 - Lee endured emotional stress due to isolation from local communities.
- There are many stories of Lee's interactions with the community of Savannah.

The vast virtually undisturbed salt marsh 51 which stands in stark contrast to the heavily 52 modified environment of Cockspur Island 53

- The size of the marsh and the fact • that it exists as a contiguous habitat (ecological value of the size and scope of the area).
- Water quality is high enough to support recreational oyster harvesting.
- It is a nursery for many juveniles of • fish and shellfish species.
- It provides habitat for many threatened and endangered species and species of concern (e.g., diamondback terrapin, manatee, wood stork).
- The calming and rejuvenating • experience provided by views of the vast expanse of uninterrupted marsh.
- The marsh offers superb • opportunities for eco-tourism (e.g., canoeing, kayaking).
- There is an opportunity to compare • an altered environment with one

| 1 | essentially unaltered (Cockspur vs. |
|---|-------------------------------------|
| 2 | McQueens islands). |

Other Important Resources and Values

- ³ Parks may also have other important
- ⁴ resources and values that may not be
- 5 fundamental to the park's purpose and
- ⁶ significance but are nevertheless determined
- 7 to be particularly important considerations
- ⁸ for general management planning.
- ⁹ Identifying other important resources and
- ¹⁰ values is primarily done to separate those
- ¹¹ resources or values that are covered by the
- ¹² servicewide mandates and policies, from
- 13 those that have important considerations to
- ¹⁴ be addressed in the general management
- 15 plan.

Cultural Resources

- Wesley Monument John Wesley, 16 founder of Methodism, landed on 17 Cockspur Island in 1736. Wesley's 18 journal records: 19 "...about eight in the morning I first 20 set foot on American ground. It was a 21 small uninhabited island...over 22 against Tybee, called by the English 23 Peeper Island. Mr. Oglethorpe led us 24 through the moorish land on the 25 shore to a rising ground...we chose an 26 open place surrounded with myrtles, 27 bays, and cedars, which sheltered us 28 from the sun and wind, and called our 29 little flock together to prayers." 30 The previous quotation is inscribed 31 on the Wesley Monument within Fort 32 Pulaski National Monument. The 33
- monument is a simple brick column
 set on a limestone base.
- Battery Hambright Between 1898 and 1899, to provide additional harbor protection during the
 Spanish-American War, the War
 Department built Battery Horace
 Hambright on Cockspur Island's

north shore. (Meader and Binkley, 2003)

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 Quarantine Station — On May 8, 1889, the War Department issued a revocable license to the city of Savannah to establish a quarantine station on the northwest portion of Cockspur Island. A Caribbean-style raised cottage, still extant and used as the monument administrative headquarters today, was completed in 1891 for a quarantine officer. (Meader and Binkley, 2003)



QUARANTINE STATION AND HOSPITAL

Cockspur Island Lighthouse — • Situated on an islet off the southeastern tip of Cockspur Island marking the South Channel Savannah River, the Cockspur Island Lighthouse stands 12 miles east of the Port of Savannah. The islet, often covered by high tide, is comprised of oyster shells, and marsh grass. Documented references suggest the first brick tower, used as a daymark, was built on Cockspur Island between March, 1837, and November, 1839. In 1854, the structure was destroyed by a hurricane. The tower was rebuilt and enlarged on the same foundation the next year.



COCKSPUR LIGHTHOUSE FROM GROUND LEVEL

| - | Cistoma briek foundation mains |
|-----|--|
| 1 • | Cisterns, brick foundation ruins, |
| 2 | north pier — These elements are the |
| 3 | remains of the construction village |
| 4 | used by workers who built Fort |
| 5 | Pulaski. The village consisted of small |
| 6 | frame buildings, many built on stilts. |
| 7 | Some of the structures served as |
| 8 | dormitories for workers, while others |
| 9 | were reserved for managers. A |
| 10 | hospital and storage areas were also |
| 11 | constructed. The remains of a stone |
| 12 | pier on the north shore of Cockspur |
| 13 | Island can be seen at the end of a trail |
| 14 | that begins just northwest of the fort's |
| 15 | parking lot. |
| | |

Recreation Opportunities

| 16 17 | • | Wildlife viewing opportunities (deer, herons, eagles, alligators, etc.) |
|----------|---|---|
| 18 | ٠ | Outdoor recreation opportunities |
| 19 | | (walking, bicycling, etc.) |

²⁰ • Fishing opportunities

Primary Interpretive Themes

²¹ Interpretive themes are ideas, concepts, or

²² stories that are central to the monument's

- ²³ purpose, significance, identity, and visitor
- ²⁴ experience. The primary interpretive themes
- ²⁵ define concepts that every visitor should have
- ²⁶ the opportunity to learn. Primary themes also
- ²⁷ provide the framework for the park's
- ²⁸ interpretation and educational programs,
- ²⁹ influence the visitor experience, and provide
- ³⁰ direction for planners and designers of the
- ³¹ park's exhibits, publications, and audiovisual
- ³² programs. Subsequent interpretive planning
- ³³ may elaborate on these primary themes.

In 1999, Representative Jesse Jackson, Jr. (D-34 IL) inserted language in the Fiscal Year 2000 35 National Park Service appropriations bill that 36 included this statement: "The Secretary of the 37 Interior is directed to *encourage* (emphasis 38 added) the National Park Service managers of 39 Civil War battle sites to recognize and include 40 in all of their public displays and multimedia 41 educational presentations, the unique role 42 that the institution of slavery played in 43 causing the Civil War and its role, if any, at 44 the individual battle sites." 45

In general management planning, primary 46 interpretive themes may form the basis for 47 alternatives and management zones that prescribe resource conditions and visitor 49 experiences. Identifying primary themes 50 leads to recommendations for interpretive 51 and educational facilities, media, and services 52 that are core to park missions and facilitate 53 emotional and intellectual connections with 54 park resources and values. The development 55 and interpretation of primary themes provide 56 a framework for shared perspectives among 57 visitors, stakeholders, and the public. 58

The more significant themes at Fort Pulaski
National Monument, extracted from the
monument's August 2006 long-range
interpretive plan are as follows:

- Fort Pulaski was strategically significant during the Civil War to both Confederate and Union political and military interests. (Shaping the Political Landscape — Political Theories)
- The rifle artillery siege of Fort Pulaski was a landmark experiment in the

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| 1 | | history of military science and | 51 |
|----|---|---|----------|
| 2 | | invention. (Expanding Science and | 52 |
| 3 | | Technology — Experiment and | |
| 4 | | Invention) | 53 |
| | | , | 54 |
| 5 | • | For over 250 years, Cockspur Island | 55 |
| 6 | | served the colonial, state, and | 56 |
| 7 | | national governments as a strategic | 57 |
| 8 | | site for protecting economic and | 58 |
| 9 | | political interests. (Developing the | 59 |
| 10 | | American Economy – Government | 60 |
| 11 | | Policies and Practices, Shaping the | 61 |
| 12 | | Political Landscape) | 62 |
| 13 | • | In October 1864, Union troops | 63 |
| 14 | | stationed at Fort Pulaski accepted | 64 |
| 15 | | transfer of a group of imprisoned | 65 |
| 16 | | Confederate officers who later | 66 |
| 17 | | became known as the Immortal Six | 00 |
| 18 | | Hundred. The treatment of prisoners | |
| 19 | | of war and political prisoners | |
| 20 | | continues to be a relevant topic in the | |
| | | 21st century. (Shaping the Political | |
| 21 | | Landscape — Military Institutions) | |
| 22 | | 1 5 7 | |
| 23 | ٠ | A labor force of skilled workers, both | |
| 24 | | free and slave, under the supervision | |
| 25 | | of the U.S. Army Corps of Engineers | |
| 26 | | built the fort. (Developing the | |
| 27 | | American Economy — Workers and | |
| 28 | | Work Environments) | |
| 29 | • | The construction village which used | |
| 30 | | the northern bank of the Savannah | 67 |
| 31 | | River provided living | 68 |
| 32 | | accommodations for the skilled | 69 |
| 33 | | workers. A large pier was constructed | 70 |
| 34 | | to handle the arrival of supplies from | 71 |
| 35 | | ports north and south. (Developing | 72 |
| 36 | | the American Economy — Workers | 73 |
| | | and Work Environments) | 74 |
| 37 | | | 75 |
| 38 | ٠ | The design and construction of Fort | |
| 39 | | Pulaski was a significant project for | 76 77 |
| 40 | | the U.S. Army Corps of Engineers. | 77 |
| 41 | | (Shaping the Political Landscape — | 78 |
| 42 | | Military Institutions) | 79 |
| 43 | • | King Cotton brought wealth to the | 80 |
| 44 | | South and the port city of Savannah. | 81 |
| 45 | | (Developing the American Economy | 82 |
| 46 | | — Exchange and Trade) | 83 |
| | | | 84 |
| 47 | ٠ | The artificial environments on | 85 |
| 48 | | Cockspur Island contrast significantly | 86 |
| 49 | | with the natural environments on | |
| 50 | | adjacent McQueens Island. | |
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(Transforming the Environment — Adverse Consequences)

- The Savannah Bar Pilots and their forbears have served the Port of Savannah from Cockspur and McQueens islands almost continuously since 1762. (Developing the American Economy — Exchange and Trade)
- Fort Pulaski and its remnant structures on Cockspur Island and the vast salt marshes of McQueens Island are worthy of protection as a unit of the National Park Service. (Transforming the Environment — Protecting and Preserving)



North Tidal Gate

- Much of Fort Pulaski National Monument's initial restoration and site operations were carried out by the Civilian Conservation Corps (CCC) as part of the federal government's effort to stimulate recovery from the Great Depression. (Developing the American Economy — Government Policies and Practices/Workers and Work Environments)
- Cockspur and McQueens islands were laboratories for technical and scientific developments in mosquito control, particularly during the period 1935-80. (Expanding Science and Technology — Effects on Lifestyle and Health/Transforming the Environment — Manipulating the Environment and Its Resources)

SERVICEWIDE LAWS AND POLICIES

- ¹ This section (expanded in appendix A)
- ² identifies what must be done at Fort Pulaski
- ³ National Monument to comply with federal
- ⁴ laws and policies of the National Park
- ⁵ Service. Many park management directives
- ⁶ are specified in laws and policies guiding the
- 7 National Park Service and are therefore not
- ⁸ subject to alternative approaches. For
- example, there are laws and policies about
- ¹⁰ managing environmental quality (such as the
- ¹¹ Clean Air Act, the Endangered Species Act,
- and Executive Order 11990 "Protection of
- ¹³ Wetlands"); governing the preservation of
- ¹⁴ cultural resources (such as the National
- ¹⁴ Foundation Preservation Act and the Native
- ¹⁶ American Graves Protection and
- 17 Repatriation Act); and providing public
- 18 services (such as the Americans with
- ¹⁹ Disabilities Act) to name only a few. In
- ²⁰ other words, a general management plan is
- ²¹ not needed to decide, for instance, that it is
- ²² appropriate to protect endangered species,
- ²³ control exotic species, protect archeological
- ²⁴ sites, conserve artifacts, or provide for
- ²⁵ handicap access. Laws and policies have
- ²⁶ already decided those. Although attaining
- ²⁷ some of these conditions set forth in these
- ²⁸ laws and policies may have been temporarily
- ²⁹ deferred in the park because of funding or
- ³⁰ staffing limitations, the National Park Service
- ³¹ will continue to strive to implement these
- ³² requirements with or without a new general
- ³³ management plan.
- ³⁴ Some of these laws and executive orders are
- ³⁵ applicable solely or primarily to units of the
- ³⁶ national park system. These include the 1916
- ³⁷ Organic Act that created the National Park
- ³⁸ Service, the General Authorities Act of 1970,
- ³⁹ the act of March 27, 1978, relating to the
- ⁴⁰ management of the national park system, and
- ⁴¹ the National Parks Omnibus Management
- ⁴² Act (1998). Other laws and executive orders
- ⁴³ have much broader application, such as the
- ⁴⁴ Endangered Species Act, the National
- ⁴⁵ Historic Preservation Act, and Executive
- ⁴⁶ Order 11990 that address the protection of
- ⁴⁷ wetlands (see appendix A).

- ⁴⁸ The NPS Organic Act (16 USC § 1) provides
- ⁴⁹ the fundamental management direction for
- ⁵⁰ all units of the national park system:
- ⁵¹ [P]romote and regulate the use of the Federal
- ⁵² areas known as national parks, monuments,
- ⁵³ and reservations...by such means and
- ⁵⁴ measure as conform to the fundamental
- ⁵⁵ purpose of said parks, monuments and
- ⁵⁶ reservations, which purpose is to conserve
- ⁵⁷ the scenery and the natural and historic
- ⁵⁸ objects and the wildlife therein and to
- ⁵⁹ provide for the enjoyment of the same in
- ⁶⁰ such manner and by such means as will leave
- them unimpaired for the enjoyment of future
- ⁶² generations.
- ⁶³ The National Park System General
- ⁶⁴ Authorities Act (16 USC § 1a-1 et seq.)
- ⁶⁵ affirms that while all national park system
- ⁶⁶ units remain "distinct in character," they are
- ⁶⁷ "united through their interrelated purposes
- ⁶⁸ and resources into one national park system
- ⁶⁹ as cumulative expressions of a single national
- ⁷⁰ heritage." The act makes it clear that the NPS
- 71 Organic Act and other protective mandates
- ⁷² apply equally to all units of the system.
- ⁷³ Further, amendments state that NPS
- 74 management of park units should not
- ⁷⁵ "derogat[e]...the purposes and values for
- ⁷⁶ which these various areas have been
- 77 established."
- 78 The National Park Service also has
- ⁷⁹ established policies for all units under its
- ⁸⁰ stewardship. These are identified and
- ⁸¹ explained in a guidance manual entitled NPS
- ⁸² *Management Policies 2006*. The "action"
- ⁸³ alternatives (alternatives B and C) considered
- ⁸⁴ in this document incorporate and comply
- ⁸⁵ with the provisions of these mandates and
- ⁸⁶ policies.
- ⁸⁷ Public Law 95-625, the National Park and
- ⁸⁸ Recreation Act, requires the preparation and
- ⁸⁹ timely revision of general management plans
- ⁹⁰ for each unit of the national park system.
- ⁹¹ Section 604 of that act outlines several
- ⁹² requirements for general management plans,
- ⁹³ including measures for the protection of the
- ⁹⁴ area's resources and "indications of potential
- ⁹⁵ modifications to the external boundaries of

- ¹ the unit and the reasons therefore." NPS
- ² Management Policies adopted in 2006
- ³ reaffirm this legislative directive.
- ⁴ To truly understand the implications of an
- ⁵ alternative, it is important to combine the
- 6 servicewide mandates and policies with the
- ⁷ management actions described in an
- ⁸ alternative.
- ⁹ Table 1 shows some of the most pertinent
- ¹⁰ servicewide mandates and policy topics

- ¹¹ related to planning and managing Fort
- ¹² Pulaski National Monument; each topic has
- ¹³ desired conditions that NPS staff is striving to
- ¹⁴ achieve. Appendix A expands on this
- ¹⁵ information by citing the law or policy
- ¹⁶ directing these actions and giving examples
- ¹⁷ of the types of actions being pursued. The
- ¹⁸ alternatives in this general management plan
- ¹⁹ address the desired future conditions that are
- ²⁰ not mandated by law and policy and must be
- ²¹ determined through a planning process.

| TABLE 1. SERVICEWIDE MANDATES AND POLICIES PERTAINING TO FORT PULASKI NATIONAL MONUMENT | | |
|---|--|--|
| Торіс | Current laws and policies require that the following conditions be achieved at Fort Pulaski National Monument | |
| | Fort Pulaski National Monument is managed as part of a greater ecological, social, economic, and cultural system. | |
| Relations with Private and Public Organizations, Owners | Good relations are maintained with adjacent landowners, surrounding communities, and private and public groups that affect, and are affected by, the park. The monument is managed proactively to resolve external issues and concerns and ensure that monument values are not compromised. | |
| of Adjacent Land, and Governmental Agencies | Because the national monument is an integral part of a larger regional environment, the National Park Service works cooperatively with others to anticipate, avoid, and resolve potential conflicts, protect national monument 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. | |
| Natural Resources | | |
| Air Quality | Air quality in the monument meets national ambient air quality standards for specified pollutants. The monument's air quality is maintained or enhanced with no significant deterioration. | |
| Ecosystem Management | The monument is managed holistically, as part of a greater ecological, social, economic, and cultural system. | |
| Exotic Species | The management of populations of exotic plant and animal species, up to and including eradication, are undertaken wherever such species threaten monument resources or public health and when control is prudent and feasible. | |
| Fire Management | Fort Pulaski National Monument fire management programs are designed to meet resource management objectives prescribed for the various areas of the monument 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. | |
| | Natural floodplain values are preserved or restored. | |
| | Long-term and short-term environmental effects associated with the occupancy and modification of floodplains are avoided. | |
| Floodplains | 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 National Park Service | |
| Floouplains | Prepares and approves a statement of findings in accordance with DO 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). | |
| | 20 | |

TABLE 1. SERVICEWIDE MANDATES AND POLICIES PERTAINING TO FORT PULASKI NATIONAL MONUMENT

| Торіс | Current laws and policies require that the following conditions be achieved at Fort Pulaski National Monument |
|---|---|
| General Natural Resources/ | Native species populations that have been severely reduced in or extirpated from Fort Pulaski National Monument are restored where feasible and sustainable. |
| Restoration | Populations of native plant and animal species function in as natural condition as possible except where special considerations are warranted. |
| Geologic Resources | NPS will preserve and protect geologic resources as integral components of monument natural systems. As used here, the term "geologic resources" includes both geologic features and geologic processes. |
| Land Protection | Land protection plans are prepared to determine and publicly document what lands or interests in land need to be in public ownership, and what means of protection are available to achieve the purposes for which the national park system unit was created. |
| Native Vegetation and Animals | The National Park Service will maintain as parts of the natural ecosystem, all native plants and animals in the park. |
| Soils | The National Park Service actively seeks to understand and preserve the soil resources of Fort Pulaski National Monument, 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. |
| Threatened and | Federal and state-listed threatened and endangered species and their habitats are protected and sustained. |
| Endangered Species and Species of Concern | Native threatened and endangered species populations that have been severely reduced in or extirpated from Fort Pulaski National Monument are restored where feasible and sustainable. |
| Water Resources | 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. |
| | The natural and beneficial values of wetlands are preserved and enhanced. The National Park Service 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. |
| Wetlands | The National Park Service 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 National Park Service compensates for remaining unavoidable adverse impacts on wetlands by restoring wetlands that have been previously degraded. |
| Cultural Resources | |
| Archeological Resources | Archeological sites are identified and inventoried and their National Register of Historic Places (National Register) 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 Historic Preservation Division of the Georgia Department of Natural Resources, Advisory Council on Historic Preservation, American Indian tribes, and others as appropriate. Mitigation may include a variety of measures ranging from avoidance to data recovery, and is generally included in a memorandum of agreement. |
| | 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. |
| 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 |

| Торіс | Current laws and policies require that the following conditions be achieved at Fort Pulaski National Monument |
|--|---|
| | register are protected in accordance with the Secretary of the Interior's Standards and Guidelines for Archeology and Historic Preservation. However, if it is determined through a formal process that disturbance or natural deterioration is unavoidable, mitigation measures and consultation are initiated as described for archeological resources, previously. |
| | Appropriate cultural anthropological research is conducted in cooperation with groups associated with Fort Pulaski National Monument. |
| Ethnographic Resources | All ethnographic resources determined eligible for listing or listed on the national register are protected. If disturbance of such resources is unavoidable, formal consultation with the state historic preservation division, the Advisory Council on Historic Preservation, and with American Indian tribes as appropriate, is conducted. |
| | Cultural landscape inventories are conducted to identify landscapes potentially eligible for listing in the national register, and to assist in future management decisions for landscapes and associated resources, both cultural and natural. |
| | 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. |
| Cultural Landscapes | 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. |
| | The National Park Service is preparing a cultural landscape report for Fort Pulaski National Monument. The cultural landscape report will be submitted for monument approval prior to final approval of the general management plan. |
| Museum Collections | 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. |
| Visitor Use and Experier | ice |
| | Fort Pulaski National Monument 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 park. No activities occur that would cause derogation of the values and purposes for which the monument was established. |
| Visitor Use and Experience and Park Use Requirements | For all zones, districts, or other logical management divisions within Fort Pulaski National Monument, 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. |
| | Park visitors will have opportunities to understand and appreciate the significance of the monument 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 monument are accessible to and usable by all people, including those with disabilities within an inviting atmosphere accessible to every segment of American society. |
| Public Health and | Although recognizing that there are limitations on its capability and constraints imposed by the Organic Act to not impair resources, the service and its concessioners, contractors and cooperators will seek to provide a safe and healthful environment for visitors and employees. |
| Safety | The monument 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 monument staff will reduce or remove known hazards and/or apply appropriate mitigative measures, such as closures, guarding, gating, education, and other actions. |

| Торіс | Current laws and policies require that the following conditions be achieved at Fort Pulaski National Monument | | |
|--|---|--|--|
| Other Topics | Other Topics | | |
| | NPS facilities are harmonious with monument resources, compatible with natural processes, aesthetically pleasing, functional, as accessible as possible to all segments of the population, energy-efficient, and cost effective. | | |
| Sustainable Design/ Development | All decisions regarding monument operations, facilities management, and development in the monument — from the initial concept through design and construction — reflect principles of resource conservation. Thus, all monument developments and monument operations are sustainable to the maximum degree possible and practical. New developments and existing facilities are located, built, and modified according to the <i>Guiding Principles of Sustainable Design</i> (NPS 1993) or other similar guidelines. | | |
| | Management decision-making and activities throughout the national park system should use value analysis, which is mandatory for all Department of the Interior bureaus, to help achieve this goal. Value planning, which may be used interchangeably with value analysis/value engineering/value management, is most often used when value methods are applied on general management or similar planning activities. | | |
| Wilderness Values | The National Park Service preserves the wilderness character of those areas eligible for wilderness designation until such time as Congress makes the decision to include or exclude lands in the monument from the National Wilderness Preservation System. | | |
| Transportation to and within the Park | Visitors have reasonable access to the park, and there are connections from the monument to regional transportation systems as appropriate. Transportation facilities in the monument provide access for the protection, use, and enjoyment of monument resources. They preserve the integrity of the surroundings, respect ecological processes, protect monument resources, and provide the highest visual quality and a rewarding visitor experience. | | |
| | The National Park Service participates in all transportation planning forums (U.S. Highway 80 & Savannah Port Project) that may result in links to parks or impact monument resources. Working with federal, tribal, state, and local agencies on transportation issues, the National Park Service seeks reasonable access to parks, and connections to external and alternative transportation systems. | | |
| Utilities and Communication Facilities | Neither Fort Pulaski National Monument resources nor public enjoyment of the monument are denigrated by nonconforming uses. Telecommunication structures are permitted in the monument to the extent that they do not jeopardize the monument's mission and resources. No new nonconforming use or rights-of-way are permitted through the monument without specific statutory authority and approval by the director of the National Park Service or his representative, and are permitted only if there is no practicable alternative to such use of NPS lands. | | |

OTHER PLANNING EFFORTS RELATED TO THIS GENERAL MANAGEMENT **PLAN**

- Fort Pulaski National Monument is located 1
- on Cockspur and McQueens islands, 2
- Georgia, between Savannah and Tybee Island 3
- on the Atlantic Ocean coast. The monument 4
- is surrounded mostly by waters including the 5
- North and South Channels Savannah River, 6
- the Bull River, the Atlantic Ocean, and 7
- Lazaretto Creek. The Georgia Department of 8
- Transportation owns Long Island and Bird 9
- Island, which lie immediately to the west of 10
- the Cockspur Island portion of the national 11
- monument and consist of land mostly created 12
- by dredge spoil from the Savannah River. 13
- There are no private landowners immediately 14
- adjoining the park, however there is a parcel 15
- on Tybee Island that is within the authorized
- 16 boundary but is within private ownership. 17
- The owners of this parcel worked with Fort
- 18 Pulaski to create a small park and exhibit to 19
- provide visitors with the only on-the-ground 20
- opportunity for visualizing the perspective
- 21
- and line of sight of the federal batteries on 22
- Tybee Island. 23
- Several plans have influenced or would be 24
- influenced by the approved general 25
- management plan for Fort Pulaski National 26
- Monument. These include plans by the 27
- Georgia Department of Transportation to 28
- widen and elevate U.S. Highway 80 which 29
- runs through the middle of the national 30
- monument and is the only road link between 31
- Tybee Island and the mainland at Savannah. 32
- A major planning effort by the Georgia Port 33
- Authority in conjunction with the U.S. Army 34
- Corps of Engineers aims to deepen the North 35
- Channel Savannah River to accommodate 36
- larger and faster container ships in order to 37
- maintain competiveness for the Port of 38
- Savannah. Both of these projects have 39
- potentially serious impacts on natural and 40
- cultural resources within the national 41
- monument. 42
- A cultural landscape report for Fort Pulaski is 43
- in process as this general management plan is 44
- being written. That document will tier off the 45
- final general management plan for its 46

- principal recommendations. The following 47
- sections highlight those plans most relevant 48
- to this general management plan. 49

The Georgia Department of Transportation's U.S. Highway 80 **Expansion Project**

- This project consists of the widening and 50
- elevation of U.S. Highway 80 between 51
- Savannah and Tybee Island to the east. The 52
- Georgia Department of Transportation has 53
- notified the monument that some land within 54
- 55 the monument boundary will be required for
- the expanded right-of-way as well as for 56
- temporary storage of materials and for 57
- staging purposes. 58
- An opinion issued by the Department of the 59
- Interior's Regional Solicitor in Atlanta dated 60
- October 13, 2006, concluded that an Act of 61
- Congress would be required to enable a land 62
- exchange between Fort Pulaski National 63
- Monument and the Georgia Department of 64
- Transportation unless the Secretary of the 65
- Department of the Interior, under Section 66
- 4(f) of the Department of Transportation Act 67
- of 1966, determines that impacts from the 68
- project on the national monument will be de 69 minimis. 70
- The monument has begun negotiations with 71
- the Georgia Department of Transportation to 72
- provide for mitigation of lands that would be 73
- lost to the project and for other impacts. The 74
- highway bisects Fort Pulaski National 75
- Monument and therefore this project has the 76
- potential to adversely impact natural and 77
- cultural resources on the McQueens Island 78
- side of the park. The National Park Service 79
- has participated in the planning process and
- will continue to do so as this project moves
- 82 forward.

The Georgia Port Authority's Savannah Harbor Expansion Project

- The U.S. Army Corps of Engineers is the lead 83
- federal agency for an evaluation of the 84
- deepening of the Federal Navigation Project 85

80 81

- 1 at Savannah Harbor, Georgia, in increments
- ² from the existing depth of 42 feet Mean Low
- ³ Water to a potential depth of 48 feet, to ease
- ⁴ current shipping constraints and to
- 5 accommodate anticipated growth in
- ⁶ commerce and vessel sizes. In the Water
- 7 Resources Development Act of 1999, the U.S.
- 8 Congress authorized deepening the
- ⁹ navigation channel to a maximum depth of 48
- ¹⁰ feet Mean Low Water, subject to further
- ¹¹ studies and approval of those study results by
- ¹² four federal agencies. The other three federal
- ¹³ agencies—the U.S. Environmental Protection
- ¹⁴ Agency (U.S. EPA) (Region IV), the
- ¹⁵ Department of Commerce (acting through
- ¹⁶ the National Marine Fisheries Service), and
- ¹⁷ the Department of the Interior (acting
- 18 through the U.S. Fish and Wildlife
- ¹⁹ Service)—have agreed to participate as
- ²⁰ cooperating agencies in the preparation of
- ²¹ the Tier II EIS. The Georgia Ports Authority
- ²² will also serve as a cooperator in the
- 23 environmental impact statement
- 24 development process.
- ²⁵ Wave action from larger, faster container
- ²⁶ ships entering and leaving the Port of
- 27 Savannah has the potential to cause serious
- ²⁸ erosion to the northern shoreline of
- ²⁹ Cockspur Island and the foundation of the
- ³⁰ Cockspur Island Lighthouse just off the
- eastern shore of Cockspur Island.

The National Park Service Cultural Landscape Report

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- ³³ The National Park Service is preparing a
- ³⁴ cultural landscape report for Fort Pulaski
- ³⁵ National Monument. The report will be
- ³⁶ submitted for monument approval prior to
- ³⁷ final approval of the general management
- ³⁸ plan. The plan sets broad goals for future
- ³⁹ resource conditions and visitor experiences.
- ⁴⁰ A cultural landscape report establishes more
- ⁴¹ specific preservation goals for a cultural
- ⁴² landscape. The goals must be grounded in
- ⁴³ research, inventory, documentation, and
- ⁴⁴ analysis and evaluation of a landscape's
- ⁴⁵ characteristics and associated features. The
- ⁴⁶ content of a cultural landscape report
- ⁴⁷ provides the basis for making sound

- decisions about management, treatment, and
- ⁴⁹ use. A report may include information
- ⁵⁰ spanning numerous disciplines in order to
- ⁵¹ evaluate a landscape's historical,
- ⁵² architectural, archeological, ethnographic,
- ⁵³ horticultural, landscape architectural, and
- ⁵⁴ engineering features, along with ecological
- ⁵⁵ processes and natural systems. Based on this
- ⁵⁶ information and site management goals, such
- ⁵⁷ as access, contemporary use, and
- ⁵⁸ interpretation, a cultural landscape report
- ⁵⁹ outlines appropriate treatment for a
- ⁶⁰ landscape consistent with its significance,
- ⁶¹ condition, and planned use.

The Georgia State Historic Preservation Plan 2007-2011 (Building a Preservation Ethic)

- ⁶² The preparation and implementation of a
- ⁶³ statewide comprehensive plan for historic
- ⁶⁴ preservation is required by the National Park
- ⁶⁵ Service for the participation of a state historic
- ⁶⁶ preservation office in the national historic
- ⁶⁷ preservation program. In Georgia, the
- ⁶⁸ Historic Preservation Division, a unit of the
- ⁶⁹ Department of Natural Resources,
- ⁷⁰ administers the program. This document is
- ⁷¹ the guiding document for the state's historic
- ⁷² preservation program. The primary goal in
- ⁷³ the Georgia historic preservation plan is
- ⁷⁴ naturally to "Preserve Georgia's Historic
- 75 Resources." The National Park Service assists
- ⁷⁶ and partners with the Historic Preservation
- 77 Division in many ways to achieve this goal.
- ⁷⁸ An important example is the Certified Local
- 79 Governments Program. Seventy-five Georgia
- ⁸⁰ communities (including Savannah and
- ⁸¹ Chatham County) participate in the program,
- ⁸² choosing to enter into a preservation
- ⁸³ partnership with the Historic Preservation
- ⁸⁴ Division and the National Park Service. By
- ⁸⁵ passing a preservation ordinance and
- ⁸⁶ establishing a local commission that complies
- ⁸⁷ with the Georgia Historic Preservation Act,
- ⁸⁸ these communities commit to actively protect
- ⁸⁹ their historic resources. This partnership
- 90 establishes a relationship among these local
- ⁹¹ governments and the state and federal
- ⁹² agencies carrying out historic preservation
- ⁹³ programs. Certified local government

- programs benefit from this status by receiving 1
- technical assistance and being eligible for 2
- grant funds passed through the Historic 3
- Preservation Division from the National Park 4
- Service. 5

The Regional Plan of Coastal Georgia 2010

- "The Regional Plan of Coastal Georgia has 6
- been created to provide guidance to regional 7
- and business leaders, local government, state 8
- and federal agencies, and citizens as they help 9
- shape coastal Georgia's future. It is the result 10
- of a comprehensive review and analysis of 11
- coastal Georgia's 10 counties and 35 12
- municipalities' land development trends and 13
- patterns that identified opportunities and 14
- challenges facing the region." Under the 15 heading "Intrinsic Resources: Cultural and
- 16
- Historical" the Coastal Regional Commission 17 expresses a vision of protecting, restoring,
- 18 enhancing, and managing these resources for
- 19 the benefit of its citizens, visitors, and future
- 20 generations. This is very similar vision to that
- 21 expressed in the language found in the 22
- National Park Service Organic Act of 1916: 23
- "...to conserve the scenery and the natural 24
- and historic objects and the wildlife therein 25
- and to provide for the enjoyment of the same 26
- in such manner and by such means as will 27
- leave them unimpaired for the enjoyment of 28
- future generations." More specifically, a 29
- guiding principle in this section of the plan is 30
- to "Maintain viewsheds of significant cultural 31
- and historic assets." Performance standards 32
- for achieving this principle include adopting 33
- design guidelines that protect viewsheds of 34
- significant cultural and historic assets and 35
- restricting incompatible features from 36
- encroaching upon important cultural, 37
- archeological, and historical viewsheds. 38
- These principles and performance standards 39
- are perfectly in tune with a major emphasis of 40
- the Fort Pulaski National Monument general 41
- management plan which is to re-establish and 42
- preserve the views between the southeast 43
- angle of the fort and the positions of the 44
- Federal batteries that reduced that face of the 45
- structure to rubble in April 1862. 46

Coastal Georgia Comprehensive Economic Development Strategy 2007

- "The Coastal Georgia Comprehensive 47 Economic Development Strategy is designed 48
- to bring together the public and private 49
- sectors in the creation of an economic
- 50
- roadmap to diversity and strengthen the 51
- regional economy. By completing this 52
- strategy, the region is eligible for economic 53
- development assistance investment from the 54
- U.S. Department of Commerce, Economic 55
- Development Administration. The region 56
- served by the Coastal Georgia Regional 57
- Development Center is also an Economic 58
- Development District designated by the 59
- Economic Development Administration. 60
- Economic development assistance 61
- investments from the Economic 62
- Development Administration can help fund 63
- local infrastructure projects, technology-led 64
- economic development projects, and 65
- strategies to respond to sudden and severe 66
- economic dislocations (e.g., major lay-offs, 67
- plant closures)." 68
- Among the major strategies of this plan are 69
- 70 the balancing of recreational uses of coastal
- resources with environmental protection, 71
- and the enhancement of natural, historic, and 72
- cultural core areas for recreation, public 73
- education, and tourist attractions to the 74
- extent such enhancements are appropriate 75
- within the protection mission. The mission 76
- and purpose of Fort Pulaski National 77
- Monument Plan and the general management 78
- plan alternatives in this document are entirely 79
- consistent with these strategies. 80

Gullah-Geechee Cultural Heritage **Corridor Management Plan**

- Designated by Congress in 2006, the 81
- Gullah/Geechee Cultural Heritage Corridor 82
- extends from Wilmington, North Carolina, in 83
- the north to Jacksonville, Florida, in the 84
- south. It is home to one of America's most 85
- unique cultures, a tradition first shaped by 86
- captive Africans brought to the southern 87
- United States from West Africa and 88

- ¹ continued in later generations by their
- ² descendents. The Gullah/Geechee Cultural
- ³ Heritage Corridor Commission in early 2009
- ⁴ embarked on a series of 21 public meetings
- $_{\rm 5}$ for the development of a management plan.
- ⁶ In June of 2009, at a public input meeting in
- ⁷ Savannah, Georgia, Tammy Herrell,
- Administrative Officer of Fort Pulaski
- ⁹ National Monument, addressed the meeting
- ¹⁰ by noting Fort Pulaski's involvement with the
- ¹¹ Gullah-Geechee Corridor since the year 2000
- ¹² and by expressing the determination of the
- ¹³ monument superintendent and staff to
- ¹⁴ continue educational and interpretive
- ¹⁵ programs that blend the Gullah/Geechee
- history and culture with the other stories that
- ¹⁷ are part of the Fort Pulaski program.

PLANNING ISSUES/CONCERNS

- ¹⁸ During scoping (early information gathering)
- ¹⁹ for this general management plan, National
- ²⁰ Park Service staff, the general public,
- ²¹ university scientists and historians, local,
- ²² state, and county government
- ²³ representatives, and other federal agency
- 24 staff identified various issues and concerns.
- ²⁵ An issue is defined as an opportunity,
- ²⁶ conflict, or problem regarding the use or
- ²⁷ management of public lands. Comments were
- ²⁸ solicited at public meetings, through planning
- ²⁹ newsletters, and on the Fort Pulaski National
- ³⁰ Monument's website (see the "Consultation
- ³¹ and Coordination" chapter).
- ³² Comments received during scoping revealed
- ³³ concerns about access to the Cockspur Island
- 34 Lighthouse, interpretation of African
- ³⁵ American history associated with the site,
- ³⁶ potential expansion of the monument
- ³⁷ boundary to include sites of federal batteries
- ³⁸ on Tybee Island, potential adverse impacts
- ³⁹ on the national monument's natural and
- 40 cultural resources from the proposed
- ⁴¹ widening of U.S. Highway 80 and the
- 42 deepening of the North Channel Savannah
- ⁴³ River, and extension of the McQueens Island
- ⁴⁴ hiker/biker path to Lazaretto Creek and
- ⁴⁵ ultimately across the creek to Tybee Island.
- ⁴⁶ The issues and concerns generally involve

- ⁴⁷ protecting monument resources from
- ⁴⁸ shoreline erosion, oil and other hazardous
- ⁴⁹ material spills in the Savannah River, and
- ⁵⁰ excessive use. The general management plan
- ⁵¹ alternatives provide strategies for addressing
- ⁵² the issues within the context of the Fort
- ⁵³ Pulaski's purpose, significance, and special
- 54 mandates.

DECISION POINTS AND CONSIDERATIONS

- ⁵⁵ Many aspects of the desired future
- ⁵⁶ conditions of Fort Pulaski National
- 57 Monument are defined in the establishing
- 58 Presidential Proclamation, the monument's
- ⁵⁹ purpose and significance statements, and
- 60 established laws and policies. The resolution
- of questions or issues that have not already
- ⁶² been addressed by legislation or laws and
- ⁶³ policies are the basis for developing different
- ⁶⁴ alternatives or approaches to managing the
- ⁶⁵ park into the future, because usually there is
- ⁶⁶ more than one way an issue could be
- resolved. As with any decision-making
- ⁶⁸ process, there are key decisions that, once
- ⁶⁹ made, will dictate the direction of subsequent
- ⁷⁰ management strategies. Based on public and
- ⁷¹ partner comments and NPS concerns, the
- ⁷² following major decision points were
- ⁷³ identified for Fort Pulaski National
- 74 Monument:

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- Should the cultural landscape of Cockspur Island be restored to look more like it did in 1862, which would involve removal of some trees and relocating the visitor parking lot to an area not visible from the terreplein (gun deck) of the fort?
- What provisions should be made for recreational opportunities outside the dike system (fishing, canoeing, or kayaking in the South Channel Savannah River, etc.)?
- Should the monument's boundary be expanded to include sites of union batteries that are not currently protected?

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| 1 | • Should interpretive programs and |
|----|---|
| 2 | displays emphasize primarily the |
| 3 | strategies, people, and technology |
| 4 | (rifled cannon) associated with the |
| 5 | siege and capture of Fort Pulaski in |
| 6 | April 1862 or should equal attention |
| 7 | be paid to the causes of the Civil War, |
| 8 | the use of the fort as a refuge for |
| 9 | escaped or freed slaves, the pre-Civil |
| 10 | War history of the construction of the |
| 11 | fort, and other historical events? |

ISSUES

¹² The NPS planning team completed the initial

scoping phase of the planning process by

¹⁴ meeting with other federal agencies; state and

¹⁵ local agencies; and a variety of partners,

¹⁶ stakeholders, and other interested parties.

¹⁷ The result was a wide-ranging list of concerns

¹⁸ and suggestions for the National Park Service

¹⁹ to consider in developing the general

²⁰ management plan.

²¹ The team received approximately 70

²² comments and suggestions during scoping.

²³ Many of the comments and suggestions fell

²⁴ into the following four categories:

| 25 • | Interpretation — The team received |
|------|---------------------------------------|
| 26 | suggestions for including and |
| 27 | expanding the interpretation of |
| 28 | African American experiences at Fort |
| 29 | Pulaski. Other contributors noted the |
| 30 | growth in ecotourism and natural |
| 31 | history interpretation and |
| 32 | recommended increasing programs in |
| 33 | these areas. The military history of |
| 34 | the fort and its connection to the |
| 35 | larger military history of Savannah |
| 36 | was also a theme recommended for |
| 37 | the monument's interpretive |
| 38 | program. |
| | |

Boundary expansion — The
 protection and possible acquisition of
 federal batteries was a common
 element in this category.

U.S. Highway 80 widening — Many
 respondents emphasized both the
 need for participation in project
 planning to protect the monument's

resources and realization of opportunities to benefit Fort Pulaski through improved access, safety, vehicle pull-offs, and terrapin exclusion devices.

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• Wetlands/Marsh — The vast salt marsh on the south side of U.S. Highway 80 evoked several comments from our partners and stakeholders. The identification and delineation of wetland boundaries was one focus. Another theme was the need to protect water quality and biodiversity in the salt marsh ecosystem.

IMPACT TOPICS — RESOURCES AND VALUES AT STAKE IN THE PLANNING PROCESS

- ⁶² An important part of planning is seeking to
- ⁶³ understand the consequences of making one
- ⁶⁴ decision over another. To this end, NPS
- ⁶⁵ general management plans are typically
- ⁶⁶ accompanied by full environmental impact
- 67 statements. Environmental impact statements
- ⁶⁸ identify the anticipated impacts of possible

actions on resources and on park visitors and
neighbors.

- ⁷¹ Impact topics are specific natural, cultural, or
- ⁷² socioeconomic resources or values (including
- visitor use and experience and park
- ⁷⁴ operations) that could be affected by
- ⁷⁵ implementation of any of the alternatives
- ⁷⁶ described in the general management plan,
- ⁷⁷ including the no-action alternative. Impacts
- ⁷⁸ to these resources or values must be
- ⁷⁹ identified, and the intensity or magnitude,
- ⁸⁰ duration, and timing of the effect to each
- ⁸¹ resource must be disclosed in the
- ⁸² environmental consequences section of the
- ⁸³ environmental impact statement.
- ⁸⁴ The impact topics identified for this general
- ⁸⁵ management plan are outlined in this section;
- ⁸⁶ they were identified based on federal laws
- ⁸⁷ and other legal requirements, Council on
- 88 Environmental Quality guidelines, NPS
- ⁸⁹ management policies, staff subject-matter
- ⁹⁰ expertise, and issues and concerns expressed

- ¹ by the public and other agencies early in the
- ² planning process. The planning team selected
- ³ the impact topics for analysis based on the
- ⁴ potential for each topic to be affected by the
- ⁵ alternatives. Also included is a discussion of
- ⁶ some impact topics that are commonly
- ⁷ addressed in general management plans, but
- ⁸ are dismissed from detailed analysis in this
- ⁹ plan for the reasons given.

IMPACT TOPICS TO BE CONSIDERED

Cultural Resources

- ¹⁰ The National Historic Preservation Act and
- ¹¹ the National Environmental Policy Act
- ¹² require that the effects of any federal
- ¹³ undertaking on cultural resources be taken
- 14 into account. Also, NPS Management Policies
- 15 2006 and Cultural Resource Management
- ¹⁶ *Guidelines* (Director's Order 28) call for the
- 17 consideration of cultural resources in
- ¹⁸ planning proposals, and taking into account
- ¹⁹ the concerns of traditionally associated
- ²⁰ peoples and stakeholders when making
- 21 decisions about the monument's cultural
- ²² resources. Actions proposed in this plan are
- ²³ focused in large part on the historic fort and
- ²⁴ surrounding environs, and thus could affect
- ²⁵ archeological resources, historic structures,
- ²⁶ cultural landscapes, ethnographic resources
- ²⁷ and museum collections.

28 Archeological Resources. Regulations

- ²⁹ implementing the Archeological Resources
- ³⁰ Protection Act define archeological resources
- to be any material remains of human life or
- ³² activities which are at least 100 years of age,
- ³³ and which are of archeological interest. Of
- ³⁴ archeological interest means capable of
- ³⁵ providing scientific or humanistic
- ³⁶ understandings of past human behavior,
- ³⁷ cultural adaptation, and related topics
- ³⁸ through the application of scientific or
- ³⁹ scholarly techniques such as controlled
- ⁴⁰ observation, contextual measurement,
- ⁴¹ controlled collection, analysis, interpretation
- ⁴² and explanation. Below ground resources
- ⁴³ associated with the construction of Fort
- ⁴⁴ Pulaski include remains of the construction
- village, roadways, and mortar batteries.

- ⁴⁶ Dredge spoil deposited on the north shore of
- ⁴⁷ the island by the U.S. Army Corps of
- ⁴⁸ Engineers has covered the archeological
- ⁴⁹ remains associated with the northern portion
- ⁵⁰ of the construction village. Because these and
- ⁵¹ other archeological resources could be
- ⁵² affected by the proposed alternatives, this
- ⁵³ topic was retained for further analysis.
- ⁵⁴ Historic Structures. Historic structures
- ⁵⁵ served and may continue to serve some form
- ⁵⁶ of human activity and are generally
- ⁵⁷ immovable. They include buildings and
- ⁵⁸ monuments, canals, bridges, roads, defensive
- ⁵⁹ works, and ruins of all structural types. At
- ⁶⁰ Fort Pulaski there are 23 historic structures
- ⁶¹ that include the fort, the fort moat, dikes,
- ₆₂ cisterns, various ruins, Battery Horace
- ⁶³ Hambright, and the Cockspur Island
- ⁶⁴ Lighthouse. These are among the most
- ⁶⁵ fundamentally important resources of Fort
- ⁶⁶ Pulaski National Monument and because one
- or more of the alternatives when
- ⁶⁸ implemented may affect them, this topic is
- ⁶⁹ retained for further analysis.



FORT PULASKI ARCHES

- 70 **Cultural Landscapes.** Cultural landscapes
- ⁷¹ are complex resources that range from large
- ⁷² rural tracts covering several thousand acres
- ⁷³ to formal gardens of less than an acre.
- 74 Natural features such as landforms, soils, and
- ⁷⁵ vegetation are not only part of the cultural
- ⁷⁶ landscape, they provide the framework
- vithin which it evolves. In the broadest sense,
- ⁷⁸ a cultural landscape is a reflection of human
- ⁷⁹ adaptation and use of natural resources and is
- ⁸⁰ often expressed in the way land is organized
- and divided, patterns of settlement, land use,
- ⁸² systems of circulation, and the types of
- structures that are built. The character of a

- ¹ cultural landscape is defined both by physical
- ² materials, such as roads, buildings, walls, and
- ³ vegetation, and by use reflecting cultural
- ⁴ values and traditions. Because some of these
- 5 landscapes will be affected in different ways
- ⁶ by alternatives in this plan, this topic is
- 7 retained for further analysis.
- ⁸ Museum Collections. Museum objects are
- ⁹ material things possessing functional,
- ¹⁰ aesthetic, cultural, symbolic, and/or scientific
- ¹¹ value, usually movable by nature or design.
- ¹² Museum objects include prehistoric and
- ¹³ historic objects, artifacts, works of art,
- ¹⁴ archival material, and natural history
- ¹⁵ specimens that are part of a museum
- ¹⁶ collection. Large or immovable properties,
- ¹⁷ such as monumental statuary, trains, nautical
- vessels, cairns, and rock paintings, are
- ¹⁹ defined as structures or features of sites. Fort
- 20 Pulaski National Monument has an extensive
- ²¹ museum collection with the majority of the
- ²² collection housed on site. None of the
- ²³ alternatives in this general management plan
- ²⁴ are expected to have greater than negligible
- ²⁵ effects on museum collections. However, for
- ²⁶ purposes of consultation pursuant to Section
- ²⁷ 106 of the National Historic Preservation Act,
- ²⁸ this topic is retained for further analysis.

²⁹ Ethnographic Resources. Ethnographic

- ³⁰ resources are landscapes, objects, plants and
- animals, or sites and structures that are
- ³² important to a people's sense of purpose or
- ³³ way of life. In other words ethnographic
- ³⁴ resources are the kinds of resources managed
- ³⁵ by many other branches of the National Park
- ³⁶ Service, but understood from the viewpoint
- ³⁷ of peoples or groups for which they have a
- ³⁸ special importance different from that
- ³⁹ enjoyed by the public. There are several types
- ⁴⁰ of studies and research that the National Park
- ⁴¹ Service uses to determine the extent of
- ⁴² ethnographic resources in a particular park.
- ⁴³ The most comprehensive background study,
- ⁴⁴ the ethnographic overview and assessment,
- ⁴⁵ reviews existing information on park
- ⁴⁶ resources traditionally valued by
- 47 stakeholders. The information comes mostly
- ⁴⁸ from archives and publications; interviews
- ⁴⁹ with community members and other
- 50 constituents—often on trips to specific

- sites—supply missing data. This study also
- ⁵² identifies the need for further research. Fort
- ⁵³ Pulaski National Monument has not yet been
- the subject of such an assessment and
- ⁵⁵ therefore the existence (or nonexistence) of
- ⁵⁶ ethnographic resources is undocumented.
- 57 However, research by Dr. Charles J. Elmore
- 58 (General David Hunter's Proclamation: The
- ⁵⁹ *Quest for African-American Freedom Before*
- ⁶⁰ *and During the Civil War*) and other records
- 61 demonstrate that there are traditional
- ⁶² attachments and connections between the
- ⁶³ African American community in the
- ⁶⁴ Savannah, Georgia area and Fort Pulaski
- ⁶⁵ National Monument. However none of the
- ⁶⁶ alternatives in this draft general management
- ⁶⁷ plan are expected to have greater than
- ⁶⁸ negligible impacts on these traditional
- ⁶⁹ attachments. However, for purposes of
- ⁷⁰ consultation pursuant to Section 106 of the
- ⁷¹ National Historic Preservation Act, the topic
- ⁷² of ethnographic resources is retained for
- ⁷³ further analysis. Chapter 2 of this general
- ⁷⁴ management plan / wilderness study /
- ⁷⁵ environmental impact statement
- ⁷⁵ environmental impact statement
- ⁷⁶ recommends the initiation and completion of
- ⁷⁷ an ethnographic overview and assessment.



ESCAPING TO FORT PULASKI – FORMER AND ESCAPED SLAVE MARCH HAYNES STANDING IN BOAT

Natural Resources

- ¹ Geology and Soils. The geology and soils of
- ² Cockspur and McQueens islands reflect a
- ³ somewhat varied environment and a complex
- ⁴ history. The soils can be affected by
- ⁵ construction, restoration, and visitor use.
- ⁶ Geologic processes and formations can
- 7 likewise be affected by these factors, as well
- ⁸ as by offsite activities. Alternatives in this plan
- ⁹ could have an adverse or beneficial impact on
- ¹⁰ geology and soils; thus this topic has been
- ¹¹ retained for analysis.

¹² Plant Communities and Vegetation. Fort

- ¹³ Pulaski National Monument has a variety of
- ¹⁴ vegetation typical of the maritime and
- 15 estuarine environment. It also has a
- ¹⁶ significant amount of nonnative invasive
- ¹⁷ vegetation. Alternatives presented in this plan
- ¹⁸ could affect native and invasive nonnative
- ¹⁹ vegetation; thus this topic has been retained
- ²⁰ for analysis.
- ²¹ Fish and Wildlife. Fort Pulaski National
- ²² Monument is home to a variety of fish, birds,
- ²³ and other wildlife. Alternatives presented in
- ²⁴ this plan could affect wildlife and fish species
- ²⁵ or important habitat; thus this topic has been
- ²⁶ retained for analysis.
- ²⁷ Water Quality. Effects on water quality are
- regulated by NPS policies and the Clean
- ²⁹ Water Act (33 U.S.C. 1344). National Park
- 30 Service *Management Policies* 2006 § 4.6.3
- states that the National Park Service will
- ³² "take all necessary actions to maintain or
- ³³ restore the quality of surface waters and
- ³⁴ groundwaters within the parks consistent
- ³⁵ with the Clean Water Act and all other
- ³⁶ applicable federal, state, and local laws and
- ³⁷ regulations...."
- ³⁸ Surface water resources in the Fort Pulaski
- ³⁹ National Monument area of interest include
- ⁴⁰ the Atlantic Ocean, the Savannah River,
- ⁴¹ miscellaneous tidal creeks, and the salt
- ⁴² marshes of McQueens Island.
- ⁴³ Implementation of any of the action
- 44 alternatives could result in increased
- ⁴⁵ sedimentation of surface water resources in

- ⁴⁶ the park. Therefore, this topic has been
- ⁴⁷ retained for analysis.
- 48 Wetlands and Floodplains. Executive Order
- ⁴⁹ 11990, "Protection of Wetlands," requires
- ⁵⁰ federal agencies conducting certain activities
- to avoid, to the extent possible, the adverse
- ⁵² impacts associated with the destruction or
- ⁵³ loss of wetlands and to avoid new
- 54 construction in wetlands if a practicable
- ⁵⁵ alternative exists. The National Park Service
- ⁵⁶ must determine if proposed actions will be in
- or will affect wetlands. If so, the responsible
- ⁵⁸ official shall prepare a wetlands assessment
- ⁵⁹ (statement of findings), which will be part of
- ⁶⁰ this environmental impact statement. There
- ⁶¹ are two types of wetlands in the monument
- that could be affected by implementation of
- ⁶³ any of the action alternatives palustrine
- $_{64}$ and estuarine so this topic is retained for
- 65 analysis.
- 66 Executive Order 11988, "Floodplain
- 67 Management," requires federal agencies to
- evaluate the potential effects of actions they
- ⁶⁹ may take in a floodplain to avoid, to the
- ⁷⁰ extent possible, adverse effects associated
- ⁷¹ with direct and indirect development of a
- ⁷² floodplain. If so, staff will prepare a
- 73 floodplain assessment (statement of
- ⁷⁴ findings). The assessment will become part of
- ⁷⁵ the environmental assessment or
- ⁷⁶ environmental impact statement. The
- ⁷⁷ alternatives in this plan propose leaving
- ⁷⁸ facilities in floodplains or removing them;
- ⁷⁹ thus this topic has been retained for analysis.

Wilderness Resources and Values

- ⁸⁰ The Wilderness Act of 1964 (16 U.S.C. §§
- ⁸¹ 1131-1136) established the National
- ⁸² Wilderness Preservation System, a network
- ⁸³ of federal lands set aside for the permanent
- ⁸⁴ preservation of their wilderness character.
- ⁸⁵ Only Congress has the authority to designate
- ⁸⁶ new wilderness areas.
- ⁸⁷ As required by NPS Management Policies
- ⁸⁸ 2006 § 6.2.1 and Director's Order 41
- ⁸⁹ (Wilderness Preservation and Management),
- ⁹⁰ the National Park Service has prepared a

- ¹ wilderness eligibility assessment that
- ² identifies those areas at Fort Pulaski National
- ³ Monument meeting the criteria for future
- ⁴ designation as wilderness (please see
- ⁵ appendix B). This assessment, in turn, has
- ⁶ served as the basis for a formal "wilderness
- 7 study," as required by NPS Management
- ⁸ *Policies* 2006 § 6.2.2. The purpose of a
- ⁹ wilderness study is to develop a proposal to
- ¹⁰ Congress regarding the designation of
- ¹¹ wilderness at a particular park unit.
- ¹² The wilderness study included in this
- ¹³ document proposes that Congress designate
- ¹⁴ most of the salt marsh of McQueens Island as
- ¹⁵ wilderness. The designation of wilderness,
- ¹⁶ should it occur, could have impacts on
- ¹⁷ monument resources, monument operations,
- ¹⁸ and visitor experience. At the same time, the
- ¹⁹ draft general management plan prescribes
- ²⁰ management goals and activities that have the
- ²¹ potential to affect the wilderness character of
- the areas proposed for designation.
- ²³ Therefore, this topic has been retained for
- ²⁴ analysis.

Visitor Use and Experience

- ²⁵ The Organic Act and NPS *Management*
- ²⁶ *Policies 2006* direct the National Park Service
- ²⁷ to provide visitors with enjoyment
- ²⁸ opportunities appropriate to the superlative
- ²⁹ resources found in the park. Actions in the
- ³⁰ alternatives could affect the types of facilities
- ³¹ available to monument visitors, as well as the
- ³² ability of visitors to engage in recreational
- ³³ activities. Actions in the plan could also affect
- ³⁴ the degree of visitor understanding and
- ³⁵ appreciation of monument resources.
- ³⁶ Therefore, this topic has been retained for
- 37 analysis.

Socioeconomic Environment

- ³⁸ The National Environmental Policy Act
- ³⁹ requires an examination of social and
- ⁴⁰ economic impacts caused by federal actions
- ⁴¹ as part of a complete analysis of the potential
- ⁴² impacts of these actions on the "human
- 43 environment." Chatham County and the

- ⁴⁴ cities of Savannah and Tybee Island make up
- the affected area for the socioeconomic
- ⁴⁶ analysis. Private sector businesses, including
- ⁴⁷ visitor service facilities and operators (e.g.,
- restaurants and motels) could be affected by
- ⁴⁹ the actions proposed in this management
- ⁵⁰ plan. Therefore, this topic has been retained
- ⁵¹ for analysis.

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Climate Change

- ⁵² All national park system units are affected by
- ⁵³ climate change, but coastal units such as Fort
- 54 Pulaski National Monument are perhaps
- ⁵⁵ more immediately vulnerable to the effects of
- ⁵⁶ global warming such as sea level rise and
- ⁵⁷ more violent and frequent storm events than
- ⁵⁸ more terrestrial parks. Therefore, this topic
- ⁵⁹ has been retained for analysis.
- ⁶¹ This impact topic looks at both the impacts of
- ⁶² climate change on the monument and how
- the monument might have to adapt to such
- change as well as the monument's carbon
- ⁶⁵ footprint and how the monument can
- ⁶⁶ become more carbon neutral. Coastal
- ⁶⁷ national park system units must consider
- 68 long-term management plans to counteract
- ⁶⁹ the negative impacts of sea-level rise on
- ⁷⁰ vulnerable coastal areas. The National Park
- ⁷¹ Service and the U.S. Geological Survey have
- 72 developed Coastal Vulnerability Index maps
- ⁷³ for a number of coastal parks. These maps
- ⁷⁴ identify coastal areas sensitive to sea-level
- ⁷⁵ rise, and will allow managers to take
- ⁷⁶ precautions necessary for their protection.

Transportation

- 77 Providing access to Fort Pulaski National
- 78 Monument is a public and monument
- ⁷⁹ concern. Alternatives proposed in this plan
- ⁸⁰ could affect visitor access. In addition, the
- ⁸¹ proposed widening of U.S. Highway 80
- through the monument could affect both
- access and monument resources. Therefore,
- this topic has been retained for analysis.

Park Operations

- ¹ Staffing, funding needs, and monument
- ² priorities may change under some of the
- ³ alternatives. Therefore, this topic has been
- ⁴ retained for analysis.

Energy Requirements, Depletable Resources, and Conservation Potential

- ⁵ The National Park Service strives to use
- ⁶ sustainable practices and technology and
- 7 reduce its impact on natural or depletable
- ⁸ resources. Under all of the alternatives,
- ⁹ ecological principles would be applied to
- ¹⁰ ensure that the monument's natural
- ¹¹ resources were maintained and conserved.
- ¹² However, the use and consumption of fuel
- ¹³ and other nonrenewable resources for NPS
- ¹⁴ operations, activities, and development
- ¹⁵ would continue and vary among the
- ¹⁶ alternatives. Therefore, this topic has been
- ¹⁷ retained for analysis.

IMPACT TOPICS CONSIDERED BUT NOT ANALYZED IN DETAIL

- ¹⁸ The following topics were considered for
- ¹⁹ detailed analysis, but dismissed for the
- 20 reasons indicated.

Air Quality

- ²¹ The monument is located in an area that has
- ²² been designated Class II under the Clean Air
- ²³ Act. By policy, the National Park Service
- ²⁴ seeks to perpetuate the best possible air
- ²⁵ quality in parks in order to preserve natural
- ²⁶ and cultural resources, and to sustain visitor
- ²⁷ enjoyment, human health, and scenic vistas.
- 28 See NPS Management Policies 2006 § 4.7.1.
- ²⁹ The contribution of pollutants resulting from
- ³⁰ implementing any of the alternatives would
- ³¹ be negligible compared to current levels.
- ³² Therefore, air quality has been dismissed
- ³³ from further consideration.

Special Status Species

- Analysis of the potential impacts on special status
- ³⁵ species (federal or state endangered, threatened,
- ³⁶ candidate, or species of concern) is required by
- ³⁷ the federal Endangered Species Act, NPS
- ³⁸ management policies, the National Environmental
- ³⁹ Policy Act, and other laws and regulations.
- ⁴⁰ Thirteen special status species have been observed
- 41 at Fort Pulaski National Monument (see table 2).
- ⁴² None of the alternatives presented in this
- ⁴³ document have the potential to substantially affect
- ⁴⁴ any special status species or habitat. Land
- 45 disturbance under all of the action alternatives
- ⁴⁶ will be relatively minor, and will mostly involve
- ⁴⁷ removal of exotic, and some native, vegetation to
- ⁴⁸ restore selected historic sight lines. One
- ⁴⁹ alternative would involve moving the asphalt
- ⁵⁰ parking area to a new location, but this new
- location does not provide habitat to special status
 species.
- ⁵³ In accordance with the Endangered Species Act
- ⁵⁴ and relevant regulations at 50 Code of Federal
- ⁵⁵ Regulations Part 402, the National Park Service
- ⁵⁶ determined that the management plan is not likely
- ⁵⁷ to adversely affect any federally threatened or
- ⁵⁸ endangered species and sent a copy of this draft
- ⁵⁹ general management plan to the U.S. Fish and
- ⁶⁰ Wildlife Service office with a request for written
- ⁶¹ concurrence with that determination. In addition.
- ⁶² the National Park Service has committed to
- ⁶³ consult on future actions conducted under the
- ⁶⁴ framework described in this management plan to
- ensure that such actions are not likely to adversely
- ⁶⁶ affect threatened or endangered species.

Coastal Zone Management

- ⁶⁷ The Coastal Zone Management Act, 16 U.S.C. §
- ⁶⁸ 1451 et seq., requires that all federal activities in
- ⁶⁹ coastal areas be consistent with approved state
- ⁷⁰ coastal zone management programs to the
- ⁷¹ maximum extent possible. Georgia's coastal zone
- ⁷² management program requires a consistency
- 73 determination for any general management plan
- 74 generated by the National Park Service for a
- ⁷⁵ monument in the Georgia coastal zone.

TABLE 2. SPECIAL STATUS SPECIES — CHATHAM, EFFINGHAM, AND JASPER COUNTIES

| Common Name | Scientific Name |
|-------------|-----------------|
| Birds | |

| Common Name | Scientific Name |
|---|--|
| American oystercatcher* | Haematopus palliates |
| Bachman's warbler | Vermivora bachmanii |
| Bald eagle* | Haliaeetus |
| Gull-billed tern* | leucocephalus |
| Least tern* | Sterna nilotica |
| Peregrine falcon* | Sterna antillarum |
| Piping plover* | Falco peregrinus |
| Red-cockaded | Charadrius melodus |
| woodpecker | Picoides borealis |
| Swallow-tailed kite* | Elanoide s forficatus |
| Wilson's plover * | Charadrius wilsonia |
| Wood stork* | Mycteria Americana |
| Reptiles | |
| Eastern indigo snake | Drymarchon couperi |
| Gopher tortoise | Gopherus polyphemus |
| Spotted turtle | Clemmys guttata |
| Green sea turtle | Chelonia mydas |
| Hawksbill sea turtle | Eretmochelys imbricate |
| Kemp's ridley sea turtle | Lepidochelys kempi |
| Leatherback sea turtle | Dermochelys coriacea |
| Loggerhead sea turtle* | Caretta caretta |
| Amphibians | |
| Flatwoods salamander | Ambystoma cingulatum |
| Dwarf siren | Pseudobranchus |
| | striatus |
| Mammals | |
| Rafinesque's big-eared | Corynorhinus |
| bat | rafinesquii |
| Humpback whale | Megaptera |
| Right (northern) whale | novaeangliae |
| West Indian manatee* | Eubalaena glacialis |
| Troot indian manatoo | - |
| | Trichechus manatus |
| Plants | Trichechus manatus |
| Plants Chaffseed | Trichechus manatus Schwalbea Americana |
| Plants Chaffseed Dwarf witch-alder | Trichechus manatus Schwalbea Americana Fothergilla gardenia |
| Plants Chaffseed Dwarf witch-alder Narrowleaf obedient plant | Trichechus manatus Schwalbea Americana Fothergilla gardenia Physostegia leptophylla |
| Plants Chaffseed Dwarf witch-alder Narrowleaf obedient plant Pondberry | Trichechus manatus Schwalbea Americana Fothergilla gardenia |
| Plants Chaffseed Dwarf witch-alder Narrowleaf obedient plant Pondberry Pondspice | Trichechus manatus Schwalbea Americana Fothergilla gardenia Physostegia leptophylla |
| Plants Chaffseed Dwarf witch-alder Narrowleaf obedient plant Pondberry | Trichechus manatus Schwalbea Americana Fothergilla gardenia Physostegia leptophylla Lindera melissifolia |
| Plants Chaffseed Dwarf witch-alder Narrowleaf obedient plant Pondberry Pondspice | Trichechus manatus Schwalbea Americana Fothergilla gardenia Physostegia leptophylla Lindera melissifolia Litsea aestivalis |
| Plants Chaffseed Dwarf witch-alder Narrowleaf obedient plant Pondberry Pondspice Tidal marsh obedient plant | Trichechus manatus Schwalbea Americana Fothergilla gardenia Physostegia leptophylla Lindera melissifolia Litsea aestivalis Physostegia leptophylla |
| Plants Chaffseed Dwarf witch-alder Narrowleaf obedient plant Pondberry Pondspice Tidal marsh obedient plant Florida privet* | Trichechus manatus Schwalbea Americana Fothergilla gardenia Physostegia leptophylla Lindera melissifolia Litsea aestivalis Physostegia leptophylla Forestiera segrata |
| Plants Chaffseed Dwarf witch-alder Narrowleaf obedient plant Pondberry Pondspice Tidal marsh obedient plant Florida privet* Swamp dock* | Trichechus manatus Schwalbea Americana Fothergilla gardenia Physostegia leptophylla Lindera melissifolia Litsea aestivalis Physostegia leptophylla Forestiera segrata |

Source: Rabolli and Ellington (1999); Govus (1998).

*Indicates species that have been observed in the
 park.

⁴ The National Park Service does not propose

⁵ any development in any area of Fort Pulaski

6 National Monument that would conflict with

- the state coastal zone management program.
- 8 A copy of this draft general management plan
- 9 / wilderness study / environmental impact
- ¹⁰ statement has been submitted to the Georgia
- ¹¹ Department of Natural Resources, Coastal
- Resources Division, for a consistency review.

Soundscape

NPS Management Policies 2006 (section 4.9) 13 requires national park system unit managers 14 to preserve the natural quiet and sounds 15 associated with physical and biological 16 resources (for example, the sounds of birds 17 and flowing water). The natural soundscape 18 (i.e. natural quiet) at Fort Pulaski is a special 19 resource to park visitors. None of the action 20 alternatives in this plan would result in long-21 term alteration of the soundscapes in the 22 park. Efforts to preserve natural soundscapes 23 in the monument would continue. Some 24 short-term impacts from construction projects may occur for brief periods in the 26 future, but impacts would be negligible. 27 Degradation of the natural soundscape could 28 occur as a result of activities outside the 29 monument boundary (e.g., possible expansion of U.S. Highway 80), but the 31 32 impacts at this point are largely speculative. Therefore, this topic was dismissed from 33 further analysis.

Lightscape Management (Dark Night Sky Preservation)

Light pollution is pervasive in the park, 35 originating primarily from Tybee Island and 36 the city of Savannah. The National Park 37 Service strives to minimize the intrusion of 38 artificial light into the night scene by limiting 39 the use of artificial outdoor lighting to basic 40 safety requirements, shielding the lights when 41 possible, and using minimal impact lighting 42 techniques. The level and type of new 43 development and lighting proposed in this 44 plan is minimal. The effects of the actions in 45 this plan on natural lightscapes would be 46 negligible. Therefore, lightscapes were 47 dismissed from further analysis. 48

Urban Quality and Design of the Built Environment

- ¹ The quality of urban areas is not a concern in
- ² this planning project. Vernacular architecture
- ³ and park-compatible design would be
- ⁴ considered for any new structures built under
- ⁵ the alternatives. Emphasis would be placed
- 6 on designs, materials, and colors that blend in
- ⁷ and do not detract from the natural and built
- 8 environment. Therefore, adverse impacts are
- ⁹ anticipated to be negligible. No further
- ¹⁰ consideration of this topic is necessary.

Socially or Economically Disadvantaged Populations

- 11 Executive Order 12898 ("Federal Actions to
- ¹² Address Environmental Justice in Minority
- ¹³ Populations and Low-Income Populations")
- ¹⁴ requires all federal agencies to incorporate
- ¹⁵ environmental justice into their missions by
- ¹⁶ identifying and addressing
- ¹⁷ disproportionately high and adverse human
- ¹⁸ health or environmental effects of their
- ¹⁹ programs and policies on minorities and low-
- ²⁰ income populations and communities. None
- ²¹ of the alternatives considered in this
- ²² document would result in any identifiable
- ²³ adverse health effects, and none of the
- ²⁴ impacts on the natural and physical
- ²⁵ environment would significantly and
- ²⁶ adversely affect any minority or low-income
- ²⁷ population or community. Therefore,
- ²⁸ environmental justice was dismissed as an
- ²⁹ impact topic.

Prime and Unique Agricultural Lands

- ³⁰ Council on Environmental Quality
- ³¹ regulations require that federal agencies
- ³² assess the effects of their actions on farmland
- ³³ soils classified by the Natural Resource
- ³⁴ Conservation Service as prime or unique.
- ³⁵ According to the Natural Resource
- ³⁶ Conservation Service, none of the soils in the
- ³⁷ project area are classified as prime or unique.
- ³⁸ Therefore, this topic was dismissed from
- ³⁹ further consideration.

Indian Sacred Sites and Indian Trust Resources

- 40 Executive Order 130007 ("Indian Sacred
- ⁴¹ Sites") requires all federal agencies to
- 42 determine whether their proposed actions
- ⁴³ would restrict access to or ceremonial use of
- ⁴⁴ Indian sacred sites by Indian religious
- ⁴⁵ practitioners or adversely affect the integrity
- ⁴⁶ of such sacred sites. Secretarial Order 3175
- ⁴⁷ requires that any anticipated impacts on
- ⁴⁸ Indian trust resources from a proposed
- ⁴⁹ action or project by a Department of the
- ⁵⁰ Interior bureau be explicitly addressed in
- ⁵¹ environmental compliance documents.
- ⁵² None of the alternatives considered in this
- ⁵³ document would restrict access to any sites
- 54 sacred to American Indians or limit
- ⁵⁵ ceremonial use of any such sites. None of the
- ⁵⁶ alternatives would affect Indian trust
- ⁵⁷ resources. Components of the plan designed
- ⁵⁸ to achieve enhanced management of cultural
- ⁵⁹ resources and a reduction in illegal relic
- ⁶⁰ hunting would have an overall beneficial
- ⁶¹ effect on any Indian sacred sites. Therefore,
- ⁶² this topic was dismissed from further
- 63 consideration.

Public Health and Safety

- ⁶⁴ The proposed developments and actions in
- ⁶⁵ the alternatives would not result in any
- ⁶⁶ identifiable impacts on human health or
- ⁶⁷ safety. Therefore, this topic was dismissed
- ⁶⁸ from further consideration.

Conformity with Local Land Use Plans

- 69 Land use at Fort Pulaski National Monument
- ⁷⁰ is consistent with local land use plans and
- ⁷¹ regulations. The creation of additional visitor
- ⁷² use opportunities in the monument as
- 73 proposed in the alternatives would be
- ⁷⁴ consistent with existing land uses or local
- ⁷⁵ (non-National Park Service) land use plans,
- ⁷⁶ policies, or controls for the area. Designation

- ¹ of wilderness would not conflict with local
- ² land use nor would it prevent traditional
- ³ motorboat use of creeks in the salt marsh,
- ⁴ because the Wilderness Act allows motorboat
- ⁵ use to continue when this use has already
- ⁶ become established (*NPS Management*
- 7 Policies 2006, Section 6.4.3.3). Therefore, this
- ⁸ topic was dismissed from further
- ⁹ consideration.

IMPAIRMENT DETERMINATION

- ¹⁰ Although Congress has given the National
- ¹¹ Park Service the management discretion to
- ¹² allow some adverse impacts within parks,
- ¹³ that discretion is limited by the statutory
- ¹⁴ requirement (generally enforceable by the
- ¹⁵ federal courts) that the Park Service must
- ¹⁶ leave park resources and values unimpaired
- ¹⁷ unless a particular law directly and
- ¹⁸ specifically provides otherwise. This, the
- ¹⁹ cornerstone of the Organic Act, establishes
- ²⁰ the primary responsibility of the National
- ²¹ Park Service. It ensures that park resources
- ²² and values will continue to exist in a
- ²³ condition that will allow the American people
- ²⁴ to have present and future opportunities for
- ²⁵ enjoyment of them.
- ²⁶ The impairment of park resources and values
- ²⁷ may not be allowed by the National Park
- ²⁸ Service unless directly and specifically
- ²⁹ provided for by legislation or by the
- ³⁰ proclamation establishing the park. The
- ³¹ relevant legislation or proclamation must
- ³² provide explicitly (not by implication or
- ³³ inference) for the activity, in terms that keep
- the National Park Service from having the
- ³⁵ authority to manage the activity so as to avoid
- ³⁶ the impairment.
- ³⁷ The impairment that is prohibited by the
- ³⁸ Organic Act and the General Authorities Act
- ³⁹ (see appendix A for specific citations.) is an
- ⁴⁰ impact that, in the professional judgment of
- ⁴¹ the responsible NPS manager, would harm

- the integrity of park resources or values,
- ⁴³ including the opportunities that otherwise
- 44 would be present for the enjoyment of those
- ⁴⁵ resources or values. Whether an impact
- ⁴⁶ meets this definition depends on the
- ⁴⁷ particular resources and values that would be
- ⁴⁸ affected; the severity, duration, and timing of
- ⁴⁹ the impact; the direct and indirect effects of
- ⁵⁰ the impact; and the cumulative effects of the
- ⁵¹ impact in question and other impacts.
- ⁵² An impact to any park resource or value may,
- ⁵³ but does not necessarily, constitute an
- ⁵⁴ impairment. An impact would be more likely
- ⁵⁵ to constitute impairment to the extent that it
- ⁵⁶ affects a resource or value whose
- 57 conservation is

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- necessary to fulfill specific purposes identified in the establishing legislation or proclamation of the park, or
- key to the natural or cultural integrity of the park or to opportunities for enjoyment of the park, or
- identified in the park's general management plan or other relevant NPS planning documents as being of significance.
- ⁶⁹ An impact would be less likely to constitute
- ⁷⁰ impairment if it is an unavoidable result of an
- ⁷¹ action necessary to preserve or restore the
- ⁷² integrity of park resources or values and it
- ⁷³ cannot be further mitigated. An impact that
- ⁷⁴ may, but would not necessarily, lead to
- ⁷⁵ impairment may result from visitor activities;
- ⁷⁶ NPS administrative activities; or activities
- ⁷⁷ undertaken by concessioners, contractors,
- ⁷⁸ and others operating in the park.
- 79 A written impairment determination will be
- ⁸⁰ made for the preferred alternative and the
- ⁸¹ draft version is found in appendix E of this
- 82 document.