National Park Service
U.S. Department of the Interior

Chesapeake Bay Program Office, Northeast Region

August 2004



## Final Chesapeake Bay Special Resource Study and Environmental Impact Statement



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### **Chesapeake Bay Special Resource Study and Final Environmental Impact Statement**

**ABSTRACT** 

PRODUCED BY: National Park Service U.S. Department of the Interior Chesapeake Bay Program Office August 2004

Responding to a request from Congress, the National Park Service (NPS) has explored the potential for a new unit of the National Park System focused on the Chesapeake Bay. The Chesapeake Bay Special Resource Study (SRS) and Final Environmental Impact Statement examines whether having additional Chesapeake Bay resources within the National Park System would make sense and would advance partnership efforts to conserve and celebrate the Chesapeake Bay; defines any concepts for how resources or areas of the Bay might fit within the National Park System; and makes recommendations regarding these findings. The Chesapeake Bay Special Resource Study (SRS) and Final Environmental Impact Statement describes a series of conceptual alternatives for how the National Park System might best represent the national significance of the Chesapeake Bay.

The study compares four action alternatives against a no action alternative that calls for the continuation of existing initiatives:

Alternative A: Today's Programs – No New Initiatives—This alternative assumes the National Park Service would simply continue its existing roles related to Chesapeake Bay conservation, restoration and interpretation.

Alternative B: An Enhanced Chesapeake Bay Gateways Network – A Permanent Watershed-wide System of Special Bay Places for Experiencing the Chesapeake--This alternative would enhance and build upon the existing Chesapeake Bay Gateways Network, the partnership system of 140-plus parks, refuges, maritime museums, historic sites and trails around the Bay watershed.

Alternative C: Chesapeake Bay Estuary National Park – Conserving and Exploring the Bay's Waters – The Chesapeake Bay is a vast estuary – 2,500 square miles of water – known not just for its size, but also its high productivity as a natural system. This alternative would create a water-based national park that exemplifies the larger Bay's estuarine character with limited land resources for access and interpretation.

Alternative D: Chesapeake Bay National Reserve – Protecting Bay Maritime & Rural Heritage – Unlike national parks, national reserves protect and sustain the working landscape, recognizing the vital role of continued human uses in the heritage of a special place. This alternative would create a reserve representative of the Chesapeake's maritime and agricultural heritage.

Alternative E: Chesapeake Bay Watershed National Ecological & Cultural Preserve – A Living Example for the Bay and the Nation--The Bay is fed by 124,000 miles of rivers and streams from a 64,000 square mile watershed. This alternative would establish a national ecological and cultural preserve focused on one exemplary Bay tributary, from headwater stream to open Bay, representative of the larger watershed.

Preferred Alternative: Alternative B represents a remarkably efficient and effective approach to advancing public understanding and enjoyment of Chesapeake resources and stimulating resource conservation. The Chesapeake Bay Gateways Network should be a permanent partnership system for experiencing the Chesapeake. For this to occur, alternative B would be implemented in its entirety: the Gateways Network would be designated a permanent program of the National Park System with an on-going funding commitment; creation of two new partnership Chesapeake Bay interpretive/education centers would be stimulated through two matching grants; and the Gateways Network would enhance links to surrounding working landscapes. At some time in the future, a unit of the National Park System encompassing either one or several of alternatives C, D, and E could make a significant contribution to protection and public enjoyment of the Chesapeake Bay.

Questions regarding this document should be directed in writing to the Director, National Park Service Chesapeake Bay Program Office, 410 Severn Avenue, Suite 109, Annapolis, Maryland 21403.

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### **Executive Summary**

## CELEBRATING & CONSERVING A NATIONAL TREASURE:

#### **Exploring the Opportunities & Alternatives**

Responding to a request from Congress, the National Park Service (NPS) has explored the potential for a new unit of the National Park System focused on the Chesapeake Bay. This section summarizes the product of that effort—the Chesapeake Bay Special Resource Study (SRS) and Final Environmental Impact Statement.

Most importantly, the Chesapeake Bay Special Resource Study and Final Environmental Impact Statement describes a series of conceptual alternatives and a preferred approach for how the National Park System might best represent the national significance of the Chesapeake Bay.

#### The National Park System

The National park System protects America's treasured places—grand and wild, historic and human, on mountain peaks and under water. Our national parks, 388 of them, welcome visitors to the best of the American experience.

#### The Chesapeake Bay

The Chesapeake Bay is a spectacular national treasure, rich in nature and history. Almost 200 miles long with 2,500 square miles of water, the Bay drains 64,000 square miles of land from New York to Virginia through 150 rivers and thousands of streams. It is home to millions and influences and inspires our culture, our economy and our recreational pursuits. Simply put, the Chesapeake Bay is a vital part of the American experience.

Many people, organizations and agencies are working hard to celebrate and conserve the Chesapeake and restore key natural resources and functions. Local residents and visitors, groups, stakeholders, and regional, state and federal agencies have long cherished the Chesapeake Bay and its important role in the natural environment and cultural development of the United States. However, we all also recognize the Chesapeake Bay faces significant pressures, which in some cases threaten the long-term sustainability of the Chesapeake ecosystem. This study provides an opportunity to look beyond existing programs and consider additional ways of conserving and celebrating the Chesapeake Bay.

#### The Special Resource Study

This study does three things:

 Examines whether having additional Chesapeake Bay resources within the National Park System would make sense and would advance partnership efforts to conserve and celebrate the Chesapeake Bay;

- Defines any concepts for how resources or areas of the Bay might fit within the National Park System;
- Makes recommendations regarding these findings.

At a series of public workshops in September 2002, many people discussed initial concepts for this study. New ideas and refinements came from those sessions and from comments submitted in writing and on the SRS website. Those refinements, combined with analysis by the study team and Chesapeake Bay partners, led directly to a series of five conceptual alternatives. (See Section 3 for more information and public comments that led to the current alternatives.)

#### The Alternatives

The alternatives described in the study are concepts for how the Chesapeake Bay might be represented within the National Park System. They provide different answers to the questions: If a Chesapeake Bay-focused unit of the National Park System were to be created...

- What would it be like?
- What focus or emphasis would it have?
- What types of resources would need to be included?
- What would be the conservation goals or priorities?
- What would a visitor experience?

Of the five alternatives, one (alternative A) is a "no action" alternative that would simply continue current NPS roles in the Chesapeake Bay. The four "action alternatives" (B, C, D & E)' vary significantly. One of these, alternative B, is quite different from the others and would not technically be labeled a unit of the National Park System.

The descriptions on the following pages are summarized. Full descriptions and a comparison chart can be found in Section 4. An environmental analysis can be found in Section 6. This detailed information is also available on the study website – www.chesapeakestudy.org.

#### Alternative A: Today's Programs - No New Initiatives

Rather than adding a new Chesapeake Bay-focused unit of the National Park System, this alternative assumes the National Park Service would simply continue its existing roles related to Chesapeake Bay conservation, restoration and interpretation. Generally, these roles include:

- Partnership in the Chesapeake Bay Program, the federal/state Bay watershed conservation effort;
- Management of existing National Park System units in the Chesapeake Bay watershed;
- Coordination of the Chesapeake Bay Gateways Network through 2008;
   and

<sup>&#</sup>x27;Note: Alternatives B-E assume the continuation of existing initiatives for the duration of their authorized programs and funding. However, alternatives B-E add new elements, concepts or approaches as well.

Providing technical assistance to communities and organizations to facilitate conservation of watersheds, natural and cultural resources.

#### Alternative B: An Enhanced Chesapeake Bay Gateways Network -A Permanent Watershed-wide System of Special Bay Places for Experiencing the Chesapeake

This alternative would enhance and build upon the existing Chesapeake Bay Gateways Network, the partnership system of 140-plus parks, refuges, maritime museums, historic sites and trails around the Bay watershed. The Chesapeake Bay Gateways Network would retain its current core characteristics, but be enhanced to fill several identified gaps in Bay conservation and restoration. It would:

- Be authorized as a permanent program of the National Park System giving the Network a continuity limited by current legislation; this would provide the broadest and most far-reaching means of addressing the geographic and thematic diversity of the Chesapeake Bay watershed;
- Stimulate the creation of and add two partnership Bay interpretive/education facilities; and
- Create a new means of linking Gateways to their surrounding working Bay landscapes.

#### Alternative C: Chesapeake Bay Estuary National Park – Conserving and Exploring the Bay's Waters

The Chesapeake Bay is a vast estuary - 2,500 square miles of water - known not just for its size, but also its high productivity as a natural system. This alternative would create a national park that exemplifies the larger Bay's estuarine character with only limited land resources for access and interpretation. The park would:

- Encompass a reasonably large, but still proportionally small water area representative of core aspects of the Chesapeake's estuarine environment, including limited, but related shoreline areas;
- Protect aquatic resources within the park in a high quality natural system, reflecting the Bay's importance as habitat, breeding ground and refuge for countless species;
- Provide public access that allows visitors to explore, enjoy and learn about the estuary and its resources without degrading the estuary's natural systems; and
- Interpret the Chesapeake Bay as an outstanding natural system through a land-based visitor orientation/interpretive center and other programming in the park.

#### Alternative D: Chesapeake Bay National Reserve – Protecting Bay Maritime & Rural Heritage

National reserves protect and sustain the working landscape, recognizing the vital role of continued human uses in the heritage of a special place. This alternative would create a reserve representative of the Chesapeake's maritime and agricultural heritage. The reserve would:

- Encompass an area of land and water reflective of the region's rural maritime, agricultural heritage;
- Retain the living, working character and pattern of human use of the lands and waters:

- Protect traditional resource dependent activities (commercial and recreational fishing, crabbing, oystering, agriculture, forestry) and manage the resources for permanently sustainable use;
- Conserve the reserve landscape, preserving high priority, sensitive natural and cultural resources;
- Interpret the Chesapeake Bay's heritage through media and programming at a central interpretive center and multiple partner sites within and beyond the reserve; and
- Be fully dependent on a partnership approach to management, involving local, state and federal government and the private sector.

## Alternative E: Chesapeake Bay Watershed National Ecological & Cultural Preserve – A Living Example for the Bay and the Nation

The Bay is fed by over 124,000 miles of rivers and streams from a 64,000 square mile watershed. This alternative would establish a national ecological and cultural preserve focused on one exemplary Bay tributary – from headwater stream to open Bay – as a representative of the larger watershed. It would:

- Conserve and restore the tributary ecosystem such that human uses are in optimal balance with natural processes, ensuring a vital, sustainable and clean future;
- Protect key natural resources and river shorelines along a core riparian area along the tributary;
- Demonstrate and apply the best in evolving stewardship practices on public and private lands throughout a resource conservation area encompassing the entire tributary watershed;
- Provide a series of opportunities for experiencing and learning about the transition of natural areas from headwaters to Bay and how human actions influence the health of the Bay; and
- Be fully dependent on a broad partnership approach to management.

#### Selection of Preferred Alternative

A draft Chesapeake Bay Special Resource Study and Environmental Impact Statement, including the alternatives described above, was available for public comment in summer 2003. The draft stimulated over 3,000 comments from the public by mail, fax, email and the internet, as well as at a series of public open houses. A summary of public comments is provided, beginning on page 61. The National Park Service used these comments to help formulate a preferred alternative for this study.

A final special resource study is required to "identify what alternative or combination of alternatives would in the professional judgment of the Director of the National Park Service be most effective and efficient in protecting significant resources and providing for public enjoyment." This standard guides the identification of a "preferred alternative."

Several factors combine to make the Chesapeake Bay Special Resource Study different from typical "new area studies" – and ultimately shape the most

<sup>&</sup>lt;sup>2</sup> Public Law 105-391.

effective and efficient approach for a National Park Service role in the Chesapeake:

- As a natural and cultural resource and source of recreational opportunities, the Chesapeake's scope is immense in significance, size and diversity.
- 2. The region has a wide range and variety of established institutions involved in various aspects of resource conservation, interpretation and recreation, including the Chesapeake Bay Program's guidance of a multi-faceted regional strategy for restoring water quality.
- 3. Through an extensive partnership system of multiple sites the Chesapeake Bay Gateways Network the National Park Service has a unique existing role in interpreting the Chesapeake, enhancing public access, and stimulating involvement in Bay restoration.
- 4. While there appears to be strong interest in the role a unit of the National Park System could play in contributing to Bay conservation and interpretation, there is not yet a site-specific park proposal within the study area.

These factors and other findings summarized on pages 63-65 point to a most effective and efficient approach combining elements of several alternatives in two principal outcomes:

## The Chesapeake Bay Gateways Network should be enhanced and made permanent:

The existing partnership system of Chesapeake Bay Gateways represents the most comprehensive approach for visitors to experience the diversity of the Chesapeake Bay. The Gateways Network links Chesapeake sites throughout the watershed, enhancing their interpretation, improving public access to Bay resources, and stimulating citizen involvement in conservation. In addition to scores of sites are twenty designated water trails, extending well over noo linear miles – with outstanding potential for an integrated and nationally recognized Chesapeake Bay water trail system.

Though the Gateways Network exists today, under current law the National Park Service – the coordinating agency for the entire Network – would cease its involvement in 2008. This sunset date should be eliminated if the Gateways Network is to continue to function.

The National Park Service plays the core, integrating role in the Gateways Network: drawing together 140 independent sites in five states and the District of Columbia; coordinating overall planning for the Network with the states and other partners; providing technical and financial assistance to partner sites; and carrying out a range of Network-wide initiatives. The National Park Service role in the Gateways Network is unique – not duplicated by any other organization. However, it is fully consistent with legislation and precedent for key federal roles in the federal-state Chesapeake Bay watershed partnership.

Continuation of the Gateways Network and the National Park Service role is broadly supported by public and organizational comments – summarized as follows in comments by the Virginia Department of Historic Resources:

With millions of visitors coming to enjoy the Bay watershed each year . . ., a permanent commitment by the nation and NPS to the Gateways Network is instrumental to sound tourism, conservation and stewardship efforts. NPS's direct involvement in partnership with the states and regional and local conservation partners is critical. . . . The Bay is a vast resource representing several states, many diverse interests, multiple geographic locations, and a wide range of related sites and site types. The Gateways Network seems to be the most flexible option for providing for full recognition, assistance and interpretation of the vast array of sites that are related to the Bay. Furthermore, it seems the most efficient to implement, and the most fiscally responsible.

The Chesapeake Bay Gateways Network should be a permanent partnership system for experiencing the Chesapeake. For this to occur, alternative B would be implemented in its entirety: the Gateways Network would be designated a permanent program of the National Park System with an ongoing funding commitment; creation of two partnership Chesapeake Bay interpretive/education facilities would be stimulated through two I:I matching grants (NPS grant share capped at \$2.5 million each); and the Gateways Network would enhance links to surrounding working landscapes.

Alternative B represents a remarkably efficient and effective approach to advancing public understanding and enjoyment of Chesapeake resources and stimulating resource conservation.

The park/reserve/preserve concepts (or combination of alternatives C, D & E) meet NPS criteria and fill a key gap in protection and public enjoyment of Bay resources:

While the Bay is large and diverse, with many ongoing protection and interpretation efforts (including the Gateways Network), some key gaps in those efforts remain. Those gaps relate to certain types of resources and themes – representative of the Bay – that are encompassed with the scopes of alternatives C, D and/or E.

At some time in the future, a unit of the National Park System encompassing either one or several of these alternative concepts could make a significant contribution to protection and public enjoyment of the Chesapeake Bay. While the alternatives are described in this study as individual concepts, many who commented on the draft study correctly observed that several concepts could be linked together. There are models for this at other locations within the National Park System, where several different sub-units are managed by the National Park Service, or a partner in association with the Park Service, as part of a larger unit. The sub-units typically protect and interpret key under-represented natural and cultural themes of the region. Existing park units neighboring the Bay (Fort McHenry National Monument, Colonial National Historical Park, and George Washington Birthplace, which each represent a narrow spectrum of Bay cultural themes) could be viewed as initial elements of such an approach.

However, there are no detailed, broadly supported site-specific proposals for any of alternatives C, D or E, or a combination thereof, at this time. As noted in the findings above, a finding on the feasibility of a potential future unit is wholly dependent upon site-specific analysis.

No further consideration and evaluation of these concepts as a potential Chesapeake Bay focused unit of the National Park System is necessary unless and until a specific proposal enjoying demonstrated state and local government, Chesapeake Executive Council³ and public support is advanced. Proposals suitable for future consideration would focus on those concepts (Alternatives C, D & E) and their core resources, or a combination of those concepts, determined through this study to preliminarily meet National Park Service criteria. Such proposals would clearly articulate how the key elements of the relevant concepts described in this study are met. The National Park Service would ultimately consider and offer a finding on any such proposal relative to new unit criteria – with a particular emphasis on feasibility and management alternatives – and this study's findings and relevant concept descriptions.

<sup>&</sup>lt;sup>3</sup> The Chesapeake Executive Council – which guides the Chesapeake Bay Program – consists of the Governors of Maryland, Pennsylvania and Virginia, Mayor of the District of Columbia, Chair of the Chesapeake Bay Commission and Administrator of the Environmental Protection Agency.

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# Section 1: Purpose and Need for Action

#### PURPOSE OF THE SPECIAL RESOURCE STUDY

The Chesapeake Bay Special Resource Study (SRS) was requested by Congress to evaluate the potential for a new unit of the National Park System focused on the Chesapeake Bay.

The purpose of the study is to explore whether it would be appropriate to represent additional Chesapeake Bay resources within the National Park System and whether that would help advance the national and regional partnership efforts to conserve and restore the Chesapeake Bay; to determine what type of resource(s) and concept(s) might be appropriate, if any; and to make recommendations regarding these findings. The 1998 National Parks Omnibus Management Act provides that studies of potential new park units include a determination by the Director of the National Park Service on what alternative is most efficient and effective. Recommendations on what, if any action should be taken are made by the Secretary of the Interior when the study is transmitted to Congress. For this study, such recommendations focus on overall concepts, resource types and criteria and not site-specific resources.

As part of this mission, the study team, led by the National Park Service (NPS), has sought direct input from political, environmental, business and community leaders, as well as local citizens and resource managers, so that alternative concepts fully representing the national significance of the Chesapeake Bay and the requirements for new NPS units could be identified. Through evaluating the concept descriptions, stakeholders in potential sites and/or areas can begin to explore for themselves whether they fit one of the concepts and wish to suggest how their place might play a role if a concept were to be implemented in the future.

Ultimately, any realistic vision or concept can only be achieved in partnership with others and in a way that sustains the vital economic, cultural, natural and recreational role the Bay plays in its surrounding communities and the nation at large.

#### NEED FOR THE SPECIAL RESOURCE STUDY

The SRS provides a unique opportunity to look beyond existing programs and assess certain aspects of desired future conditions for the resources along the Chesapeake Bay. Local residents and visitors, action groups, stakeholders, and regional, state and federal agencies have long cherished the Chesapeake Bay and its important role in the natural environment and cultural development of the United States. However, these concerned parties also recognize that Chesapeake Bay resources face substantial pressures, in some cases threatening the long-term sustainability of the Chesapeake ecosystem.

Many people, organizations and agencies are now working hard to celebrate and conserve the Chesapeake Bay, and restore its key natural resources and functions. Coordinating overall conservation and restoration efforts is the Chesapeake Bay Program, a partnership between the federal government, the states of Maryland, Virginia and Pennsylvania, the District of Columbia, and the Chesapeake Bay Commission. The National Park Service is a partner in this work.

Currently, the National Park Service works to enhance interpretation and conservation of, and access to, the Chesapeake Bay through a variety of programs and initiatives. These initiatives include: a) the Chesapeake Bay Gateways Network, a vibrant partnership system of natural, cultural, historical and recreational sites; b) management of existing NPS units, such as Fort McHenry National Monument and Historic Shrine and Colonial National Historical Park; and c) the provision of technical assistance to various preservation and conservation efforts in the Bay watershed. These initiatives help support the overall Bay conservation and restoration effort coordinated by the Chesapeake Bay Program.

Despite these efforts, existing programs may not completely encompass the important resources, stories, and themes of the Chesapeake Bay. Congress has described the units of the national park system as a cumulative expression of our national heritage. This system does not include a representative example focused on the Chesapeake Bay. The current study is intended to determine if establishing a new NPS unit would fill a gap in the National Park System. Equally important is the evaluation of a new NPS unit's potential to help support current partnership efforts to protect and interpret the Bay. Without effective recognition, protection, and interpretation, the natural resources, cultural resources and the lifestyles of the Bay may be threatened by loss, over-development, and degradation through neglect over time.

This SRS explores whether and how the NPS might extend and expand its support, using its resources and expertise to help ensure that the natural, cultural and recreational resources of the Chesapeake Bay will be enjoyed by future generations. Specifically, the study explores whether and how a National Park System area designation would help advance conservation and interpretation of the Chesapeake Bay. The SRS is a formal means of assessing existing programs, resources, and interpretive opportunities around the Bay, where gaps in conservation and interpretation might exist, and what the NPS role in filling those gaps might be.

#### STUDY PROCESS

#### **Geographic Scope of the Study**

The Chesapeake Bay as a region and a system is generally recognized as going beyond the strictest definition of the Bay itself. There are multiple layers, ranging from the Bay proper to the Bay and the tidal portions of its tributaries to the entire watershed. Sites within these broader areas contribute significantly to telling the Bay story.

However, the Chesapeake Bay watershed is enormous, encompassing 64,000 square miles (Figure 1-1). Even the Bay and its tidal tributaries have a

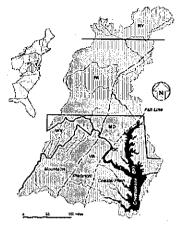




Figure 1-1: The Chesapeake Bay watershed, above, and the SRS area of focus, the mainstem of the Bay and the surrounding shoreline, below.

combined shoreline of over 11,684 miles. Since congressional interest in exploring the potential for a new National Park System unit(s) focused on the Chesapeake Bay, any potential unit should be directly recognizable as a Chesapeake Bay place.

Accordingly, the SRS focuses on the Bay proper and its surrounding shoreline. Any concepts or places considered in this study should have a substantial foothold or anchor along the Bay, but may extend beyond this core as well. The shaded portion of this drawing shows the area of focus for the study.

#### **Study Process Overview**

National Park Service management policies outline the criteria for designating a new unit and the process for conducting a special resource study. To be eligible for favorable consideration as a unit of the National Park System, an area must:

- Possess nationally significant natural or cultural resources;
- Be a suitable and feasible addition to the system; and
- Require direct NPS management instead of protection by some other government agency or by the private sector.

Generally these criteria are straightforwardly applied to specific resources and lands, usually more discrete than the Chesapeake Bay study area described above. A combination of factors – the geographic scope of the Chesapeake Bay, its diversity in resources and themes, and the lack of any initial specific proposed areas for park unit designation – requires a somewhat modified study process that still ensures NPS criteria are applied.

First and foremost, the Chesapeake Bay Special Resource Study starts with a different focus than many other special resource studies prepared by the National Park Service. This study focuses not on place, but on seeking consensus on what kind of unit of the National Park System – if any – might best represent the Chesapeake Bay. The concepts presented in this study as alternatives provide the basis for that discussion. Eventual implementation of any concept resulting from this study – a step requiring Congressional legislation – would be preceded extensive consultations and possibly even further study.

In developing concepts for a Chesapeake Bay unit of the National Park System, this study has encompassed the following steps:

- Defining the national significance of the Chesapeake Bay;
- Identifying the resource types and interpretive themes that typify the Bay
- Assessing the degree to which existing programs and initiatives conserve
  and interpret those resources and themes, or, conversely, identifying
  gaps in current Bay conservation and interpretation; Developing initial
  concepts as starting points for public discussion in workshops, briefings
  and consultations creating conceptual alternatives based on public
  feedback, gaps, Bay resources and themes and NPS criteria;
- Preparing a draft study with alternative concepts for public review;
- Evaluating public comments on draft alternatives;
- Establishing findings for a preferred NPS-alternative.

An interdisciplinary study team, led by the National Park Service, has overseen completion of these steps. Central to this process is the direct involvement of the public and Bay stakeholders in exploring and informing what kinds of concepts might best reflect the Chesapeake Bay. The study team has consulted with county, city, state, and federal officials; politicians; natural and cultural resource managers; technical experts; tourism officials; citizen's groups; trade organizations; and the general public.

"It is so known through the length and breadth of its watershed. The Bay. There is no possible confusion with any other body of water, no need for more precise description. It is, after all, the continent's largest estuary. Its waters are rich, the main supply of oysters, crabs, clams and other seafoods for much of the Atlantic seaboard. Its shorelines cradled our first settlements. It is the Chesapeake."

--William Warner, Beautiful Swimmers, 1976

### Section 2: National Significance of the Chesapeake Bay

#### INTRODUCTION

The National Park System represents many of America's most significant and treasured resources. In fact, having "national significance" is one of several key criteria that any new unit of the National Park System must meet.

A resource is considered nationally significant if it meets all four of the following standards:

- The proposed unit is an outstanding example of a particular type of resource.
- 2: It possesses exceptional value or quality in illustrating or interpreting the natural or cultural themes of our nation's heritage.
- 3: It offers superlative opportunities for recreation, for public use and enjoyment, or for scientific study.
- 4: It retains a high degree of integrity as a true, accurate, and relatively unspoiled example of the resource.

This study explores whether it is appropriate to represent Chesapeake Bay resources within the National Park System. Any such exploration must begin with an assessment of the Chesapeake Bay's overall significance. Any specific concepts or places for representing the Bay within the National Park System must reflect this significance.

#### THE BAY'S NATIONAL SIGNIFICANCE

The Chesapeake Bay is a national treasure and a resource of international significance. The Chesapeake Bay is the largest estuary in North America and is historically one of the most productive in the world. The abundance of natural resources has fed multitudes and nurtured myriad cultures and ways of life. The Bay encompasses 2,500 square miles of water; its watershed, which includes 64,000 square miles of land in six states, is drained by over 124,000 miles of rivers and streams. The Bay watershed is an incredibly complex ecosystem of water and land, creatures and peoples, cultures and economies. It is a region of profound diversity, essential to the cultural and economic vitality of the nation. Home to more than 3,600 species of plants and animals, it is known far beyond its boundaries for its aquatic productivity and once-plentiful harvests of seafood; for its cultural diversity and richness; its extensive recreational capacity; and its scenic beauty.

Ultimately, to describe what makes the Chesapeake special, we must focus not on the individual but on the collective. As John Muir said in describing ecosystems, "When we try to pick out anything by itself, we find it hitched to everything else in the universe." It is like this with the Chesapeake Bay. The

story of the Chesapeake is not just a story of individual places, resources, and events, but also of the region, and our nation, as a whole. It is the changing dynamics of the natural systems, the progression of events over time, and how the culture reflects the place.

To fully appreciate and understand the Bay, we must understand that the essence of the Chesapeake Bay story is found in the dynamic interconnectedness of water, place, nature and people over time. For centuries, human well-being has depended on the Bay's abundance, yet today, the Bay's well-being is dependent on human decisions and actions. Although it is one of the most studied bodies of water in the world, the Chesapeake Bay retains a spirit of mystery and unpredictability.

#### The Bay as a Natural Resource

A complex interaction of water, land, climate, geological formations and topographical features creates a unique ecosystem that supports the Bay's remarkable diversity and abundance. Long before humans came to the Chesapeake region, natural forces were shaping the Bay and its watershed. The Chesapeake Bay reflects a geology shaped by both cataclysmic events and the routine march of mountains to the sea, one grain of sand at a time.

The Chesapeake region contains three distinct, occasionally overlapping environmental areas or physiographic provinces. These are the Bay itself, the Coastal Plain, and the Piedmont. The Bay environment consists of deep and shallow open salt waters and the brackish waters of the lower tidal portions of rivers. The Coastal Plain bordering on the Bay consists of beaches, marshes, forests, and grasslands, growing on generally sandy or gravelly soils. This area is often called the tidewater region, since the waters along the shores rise and fall with the tide. The Piedmont region, beginning at the fall line as the upper limit of tidal influences, is characterized by mixed hardwood forests and softwood barren lands bordering on swift running freshwater rivers and streams.

The Chesapeake Bay is an estuary - a place of transition between the land and the sea, where incoming fresh water mixes with salty ocean waters driven by tidal forces. By their very nature, estuaries are places of tremendous diversity and productivity. Overall, the Chesapeake estuary is very shallow, with an average depth of about 7 meters - 10% of the area is less than a meter in depth and 20% is less than two meters. This shallowness influences the productivity of the Bay. The ability of light to penetrate the water column and reach the bottom creates an ideal habitat for living resources. Some 295 species of fish and shellfish are known to occur in the Chesapeake at various times of the year, with 32 being year-round inhabitants. Ninety percent of the Atlantic striped bass (rockfish) spawn in the Chesapeake Bay and its tributaries. Although severely depleted, nearly 40% of the U.S. commercial harvest of blue crabs comes from the Chesapeake. Approximately 2,700 species of plants have been inventoried in the Chesapeake Bay waters (the number of species of animals in flux is more difficult to estimate). The Chesapeake Bay is a major rest and feeding stop along the Atlantic Flyway for millions of migratory birds. The Bay is also winter home to more than 35% of all the waterfowl using the Atlantic Flyway. The Chesapeake Bay's abundance of

The Chesapeake Bay is nationally significant in part because it is an outstanding example of... an estuary in its natural sense, and of a unique historic and modern human development pattern that is profoundly influenced by the estuary's natural resources.

natural resources has nourished a myriad of associated cultures and has contributed to the very special Bay environment.

The Chesapeake Bay is nationally significant in part because it is an outstanding example of a particular type of resource. It is the largest estuary in North America – an outstanding example of an estuary in its natural sense, and of a unique historic and modern human development pattern that is profoundly influenced by the estuary's natural resources.

#### The Bay as a Historical and Cultural Resource

Chesapeake Bay history encompasses thousands of years of human settlement from indigenous peoples and early colonists to new immigrants. The history of the Chesapeake is inextricably linked with this nation's founding, growth, development, and perseverance. The Chesapeake landscape reflects settlement patterns that responded to the evolution of transportation technology, from canoe to sail to steam to railroads and highways. The Bay's abundance, diversity of habitats, and commercially valuable species led to hundreds of human settlements along its shores, and the development of local culture and industries. Indigenous Native Americans lived along the Bay's main and tidal river shorelines, leaving evidence of a rich diversity of cultures and adaptations to the estuary's abundance. The early European settlements along its shores, such as Jamestown and St. Mary's City, were among the first successful English colonial developments along the northern and mid-Atlantic coast. The Chesapeake Bay had a major influence on colonial development, the Declaration of Independence, the revolutionary period, the War of 1812, and the Civil War. Today, the Bay continues to influence 21st-century living.

The geography of the Bay and its rich, natural abundance have been a powerful incentive for commercial development, influencing the region's economy, transportation, and productivity. From early settlement through modern times, the natural environment of the Bay and the diverse population it has attracted have given shape to distinctive cultural traditions.

Watermen, the unique term applied to those making their living from the Bay's waters, hold a prominent place in the region's history, economy and mystique. Working year-round, many watermen harvest oysters half the year and crabs the other half. Others harvest clams, menhaden, and other fish. Waterfowl, once present in vast flocks, supported market hunting, an extractive industry that did not long endure in the face of resource depletion.

For those who worked on the Bay, vessels and methods were developed to take full advantage of the Bay's resources. The history of naval architecture on the Chesapeake encompasses schooners, Baltimore clippers, steamships and warships, from the nation's first iron-hulled ship to modern designs from the Chesapeake shipyards. Private and commercial vessels have long been designed to respond to the unique Bay environment and working conditions. Skipjacks and bugeyes are widely recognized hull designs that have historically plied the Bay's shallow waters. Centuries after the first commercial boats on the Bay, commercial shipping continues to be a driving force in the regional economy and the national and international

The Bay provides an exceptional opportunity for interpreting the interdependence of cultural and natural resources, both in its modern condition and its nearly 300-year history.

transportation and shipping network. The Port of Baltimore handles more than 30 million tons of cargo annually (Maryland Department of Transportation, 2003). The Port of Virginia at the gateway to the Bay is also a major force in the international shipping arena moving more than 12 million tons annually through the marine facilities (Port of Virginia, 2003).

Today, the cultural richness of the Bay region is maintained in the face of the extensive changes in contemporary society and tourism development. Distinctive dialects, stories, and superstitions are retained, and traditional trades of the watermen, shipbuilders, lighthouse keepers, farmers, and old fishermen are continued. The impressive history has been recognized locally with extensive interest in preserving historic structures and the cultural resources of the past. Today, there are more than 200 National Historic Landmarks designated around the Chesapeake Bay in Maryland, Pennsylvania, Virginia and the District of Columbia.

The Chesapeake Bay is nationally significant in part because it possesses exceptional value or quality in illustrating or interpreting the themes of our nation's natural and cultural heritage. The Bay provides an exceptional opportunity for interpreting the interdependence of cultural and natural resources, both in its modern condition and its nearly 300-year history. Over that period, the Bay has exerted an extraordinary influence on the course of United States history and development.

#### The Bay as a Recreational Resource

The Chesapeake Bay is within relatively easy access for tens of millions of people living in the mid-Atlantic states. For these people, it continues to be an incredible educational and recreational resource. Current and future recreational use of the Chesapeake Bay is focused on sailing and boating, fishing, cultural and natural history exploration and interpretation, and enjoyment of local foods, crafts, and hospitality. The Bay provides ideal resources and much potential for such recreation, and in recent decades, Bay-related recreation has become an economic force in the region.

Abundant opportunities for a broad range of leisure-time activities spring from the vast resources and exquisite landscapes of the Chesapeake Bay. The traditional uses of the Bay, including boating, fishing, and hunting, by long-time area residents, also attract visitors for recreation and renewal. Recreational boats now outnumber work boats in most of the Bay's communities. In 2000, there were more than 445,000 recreational boats registered in Maryland, Virginia and the District of Columbia (US Coast Guard, 2000)

One great recreational characteristic of the Bay is its soft sandy bottom. Unlike other bays such as Narragansett and San Francisco, the sandy bottom reduces the risks inherent in running aground and therefore allows boaters to explore smaller embayments and sail closer to shore. Personal watercraft, motorized boats, luxury pleasure craft, and working boats enjoy both the protection and beauty of the shorelines and the expanse of the open water.

The Bay's open waters, tidal rivers, and shorelines, as well as dozens of parks and refuges and a rapidly developing system of land and water trails, provide excellent opportunities for public use, enjoyment, education, and scientific study.

For fishermen, the diversity of the Bay enhances that greatest of all mysteries, "what is on the end of your line?" On a single fall day, a fisherman with a rod and reel has a realistic chance to catch a rockfish, bluefish, two types of trout (spotted sea trout and weakfish), flounder, spot, croaker, Spanish mackerel and white perch. In some places, there is an added bonus of two types of drum (red or black), black sea bass, cobia, yellow perch, pickerel, largemouth bass, catfish, sunfish, tautog, and other transient species.

The value of the Chesapeake Bay as a passive recreational resource cannot be overstated. To watch fish jumping, birds diving from the sky, waterfowl dabbling in the grass beds, and watermen tonging for oysters is highly enjoyable to outdoor enthusiasts interested in "nature viewing" as well as more active recreation. Being able to walk by the shoreline and see the life at the edges is gratifying and interesting to observe. You never know what will surprise you as the environment changes every hour of every day.

Present estimates are that only one to two percent of the Bay's shoreline is publicly accessible. If you have a seaworthy boat, the Bay is openly accessible, but if you are looking for a place to wade or picnic with the family or do surf fishing, your recreational options are more limited. Interest in and commitment to the Chesapeake Bay and its associated resources are greatly affected by personal contact with the natural and cultural systems. Improved opportunities for access to the shores, waters, and associated cultural and natural resources are essential if public awareness and support is to be maintained and increased. Consequently, enhancing public access to meet escalating recreational demand is considered a priority by public and private Bay interests.

The Chesapeake Bay is nationally significant in part because it offers superlative opportunities for recreation, public use and enjoyment, and scientific study. The Bay's open waters, tidal rivers, and shorelines, as well as dozens of parks and refuges and a rapidly developing system of land and water trails, provide excellent opportunities for public use, enjoyment, education, and scientific study.

#### The Bay's Integrity Today

The future of the Chesapeake hangs in the balance. The Bay today is beautiful and teeming with life. But the Chesapeake has been losing its wonderful biodiversity and abundance for decades, symbolic of a national pattern. The Chesapeake Bay and its living resources are suffering from the cumulative effects of human use and exploitation. More than 15 million people live within the Chesapeake Bay watershed. The same resource that fed millions is now hard pressed to feed tens of millions. The same land area that has housed millions is reeling under the impacts of an ever-growing population and related development pressures. If the Bay is to retain its vitality, people must increase their efforts to reduce and prevent pollution.

New environmental attitudes, policies, and behaviors offer hope for the Bay's protection, renewal, and sustainability. Recognizing the fragility of the ecosystem, residents, visitors, governments, and organizations have reassessed the ways in which humans interact with the Bay and its resources.

The changes resulting from this attention are helping to restore the Bay. The Chesapeake Bay is perhaps the most studied large estuary ecosystem in the world and arguably a primary model for ecosystem restoration and regional partnerships. The Chesapeake Bay Program is the model for dozens of other estuary restoration efforts nationally, including Casco Bay, Long Island Sound, Tampa Bay, Monterey Bay, Puget Sound and others. Much hope is placed on this ecosystem recovery and protection effort to serve as a model for additional regions.

The Chesapeake Bay is nationally significant in part because it retains a high degree of integrity as a true, accurate, and relatively unspoiled example of the resource that it illustrates. Despite some changes in its vitality, the Chesapeake Bay continues to function as an intact estuary. Furthermore, part of what makes the Chesapeake Bay significant is the effort that has been made to understand the Chesapeake ecosystem and restore the Bay's health.

#### Summary

The Chesapeake Bay is undoubtedly nationally significant. The Bay is an outstanding and large example of a unique set of ecological and cultural elements with a long-standing importance to the history and development of the United States.

While the Chesapeake can be independently viewed as a significant natural resource, a significant historic and cultural resource, and an area that provides outstanding recreational opportunities, it can only truly be understood as an interconnected and interdependent mosaic. Real understanding of the Bay comes by viewing all elements through their context and interrelationships.

The Bay's natural resources are the basis of a rich cultural history and multitude of recreational opportunities. The region's cultural history in turn affects the natural environment. The Bay proper is dramatically influenced by its watershed. Many cultural patterns of the upper watershed developed because of connections with the Bay. The Chesapeake is truly a system where each part's significance is understood through the significance of the whole.

## RECOGNITION OF THE SIGNIFICANCE OF THE CHESAPEAKE BAY

Recognition of the Chesapeake Bay as a living national treasure has long been a part of the regional and national conscience. More recently, state and federal government have heightened that recognition. The Chesapeake Bay was the first estuary in the United States targeted for intensive government-sponsored restoration efforts. Initiated and championed first by citizens, efforts were made to stop the pollution that had nearly killed the Bay by the early 1970s.

The Chesapeake Bay is now the focus of an intensive state/federal restoration and protection effort. In 1983 and 1987, the states of Virginia, Maryland, and Pennsylvania, the District of Columbia, the Chesapeake Bay Commission, and the U.S. Environmental Protection Agency, representing the federal

"The Chesapeake Bay is a national treasure that is worth preserving for its own sake."

--President Ronald Reagan, 1984

government, signed historic agreements establishing the Chesapeake Bay Program partnership to protect and restore the Chesapeake Bay ecosystem. For almost two decades, these signatories have worked together as stewards to achieve improved water quality and improvements in the productivity of living resources of the Bay. This commitment was reaffirmed through the Chesapeake 2000 agreement, wherein the signatories recognized that the Chesapeake Bay is a resource of extraordinary productivity and worthy of the highest levels of protection and restoration. The Chesapeake 2000 agreement committed the Chesapeake Bay Program partners to 94 specific measurable goals, each goal, like the elements of the Bay itself, connected to all the others.

Congress, recognizing that the Chesapeake Bay is a national treasure and a resource of worldwide significance, enacted the *Chesapeake Bay Restoration Act of 2000* reauthorizing the continuance of the Chesapeake Bay Program to implement the comprehensive cooperative restoration program.

Noting the existence of outstanding resources and the need to study and interpret the connection between the unique cultural heritage of human settlements throughout the Chesapeake Bay watershed and the natural resources on which the settlements depend, the U.S. Congress passed the *Chesapeake Bay Initiative Act of 1998* (P.L. 105-312). The purposes of the Act are to:

- Create a linked network of Chesapeake Bay gateways and water trails;
- Provide financial and technical assistance to State and local governments, local communities, non-profit organizations, and the private sector for conserving important natural, cultural, historical, and recreational resources within the watershed.

The Chesapeake Bay Gateways Network, evolving in response to the *Chesapeake Bay Initiative Act*, is a growing partnership between a diverse array of special places within the Bay watershed, including but not limited to water trails, parks, wildlife refuges, historic communities, and maritime museums. By linking these gateways, the Network allows visitors and residents to more easily explore, understand, and conserve the Bay, its watershed, and related resources.

Fifteen agencies of the federal government, recognizing the importance of the Chesapeake Bay, joined together to sign the Agreement of Federal Agencies on Ecosystem Management in the Chesapeake Bay (1994) and the Federal Agencies Chesapeake Ecosystem Unified Plan (1998). Guided by these agreements and a fundamental commitment to manage the Chesapeake Bay as a cohesive ecosystem, the federal agencies have built a record of accomplishment in a broad array of Bay stewardship objectives.

The National Park Service participates in the Chesapeake Bay Program through a Memorandum of Understanding with the United States Environmental Protection Agency and also carries out its responsibilities under the Agreement of Federal Agencies on Ecosystem Management in the Chesapeake Bay and the Federal Agencies' Chesapeake Ecosystem Unified Plan. Through each of these agreements and through the legal requirements of the Chesapeake Bay Restoration Act, NPS is committed to a range of specific

actions to support and advance conservation and restoration of the Chesapeake Bay.

## RESOURCES AND THEMES OF THE CHESAPEAKE BAY

What specific features, characteristics and stories best represent the true nature and significance of the large, diverse Chesapeake Bay? Answering this question is a starting point upon which to build an analysis of whether a Bayfocused unit of the National Park System is appropriate. This study uses two ways of viewing this question: (1) identifying a set of typical Chesapeake Bay resource types and (2) using a series of Chesapeake Bay interpretive themes. In combination, these approaches to viewing the Bay encompass its true meaning.

#### **Typical Chesapeake Bay Resource Types**

A series of resources that broadly typify the Chesapeake Bay were identified during the study process. While these resource types do not necessarily represent a comprehensive resource assessment, they form the basis of the essential elements of the tidal Chesapeake Bay experience. These resource types were confirmed through public workshops and consultations as being essential to the interpretation and conservation of the Chesapeake Bay story.

#### Natural Resource Types:

- Coastal plain geologic features (shoreline cliffs)
- Tidally-influenced tributaries
- Headwater streams
- · Upland/headwater forests
- · Meandering shorelines (necks, creeks)
- · Forested shorelines
- Wetlands (saltwater brackish and freshwater marsh, swamp)
- Estuarine islands
- Open, generally shallow waters
- Submerged aquatic vegetation (SAV)
- · Fish spawning and nursery areas
- Oyster beds
- Blue crab congregation areas
- Waterfowl wintering areas
- Sea duck foraging habitat (benthic concentration areas)
- Beaches
- Ecological restoration sites

#### Cultural Resource Types:

- Water oriented settlement sites
  - American Indian
  - Colonial
  - Plantations
  - Port/maritime communities

"...a faire Bay compassed but for the mouth with fruitful and delightsome land. Within is a country that may have the prerogative over the most pleasant places of Europe, Asia, Africa or America, for large and pleasant navigable rivers. Heaven and earth never agreed better to frame a place for man's habitation."

-- Captain John Smith, 1612

<sup>&</sup>lt;sup>4</sup> A more comprehensive description of the Chesapeake Bay environment and resources can be found in Section 5 – The Affected Environment.

- Docks
- Boatyards, ship-building sites
- Fishing piers and wharves
- Seafood processing establishments
- Maritime historic districts
- Chesapeake Bay vessels (Skipjacks, Bugeyes, etc.)
- Water based transportation routes
- Watermen fishing areas
- · Bay-oriented agricultural landscapes, working farms
- Water connected military sites on the Bay
  - · Revolutionary War sites
  - War of 1812 sites
  - · Civil War sites
  - 20th century sites

#### Recreational Opportunities:

- Scenic Bay shoreline vistas
- Scenic tributary rivers
- Recreational boating access
- Recreational fishing access sites
- Canoeing/Kayaking access points and routes
- Waterfowl hunting areas

#### Chesapeake Bay Themes

The stories of the people, places, and events related to the Chesapeake Bay and its component resources are numerous and diverse. Organizing these stories in a comprehensive series of Bay themes allows a fuller understanding of the whole Chesapeake Bay story. Themes are also the organizing framework under which interpretation of natural and cultural resources is conducted.

The existing Chesapeake Bay Gateways Network established a thematic framework for the Chesapeake Bay in 2000. The framework includes a series of overarching and principal themes and many sub-themes or topics. These themes convey the breadth of Chesapeake Bay-related interpretation and are used as part of the analysis of opportunities and gaps explained in Section 3. The principal themes are listed below (Chesapeake Bay Gateways Network, 2000). A complete list of sub-themes can be found in Appendix A.

#### The Living, Natural Bay

A complex interaction of water, land, climate, geological formations and topographical features creates a unique ecosystem that supports the Bay's remarkable diversity and abundance. Long before humans came to the Chesapeake region, natural forces were shaping the Bay and its watershed. With a surface area of 2,500 square miles, the Bay is one of the largest estuaries in the world, serving as home for a wide variety of plant and animal life. Today, both natural and human forces continue to impact and change the Bay and its watershed.

<sup>&</sup>quot;The baye is the most delightful water I ever saw between two sweet lands."

<sup>--</sup> Father Andrew White, 1634

#### Peoples of the Bay

From early settlement to today, the natural environment of the Bay and the diverse population it attracted gave shape to distinctive cultural attractions. People from all over the world settled side-by-side along the Bay, with both cooperation and conflict marking their communities. Racial, religious, ethnic, political and economic divisions have been counterbalanced by united efforts, common concerns and shared values. Throughout the history of its peoples, the water and land of the Bay influenced and transformed the culture taking root. This heritage has given the region a distinctive style and identifiable sense of place.

#### Settlement of the Bay

The Chesapeake Bay and its tributaries have attracted settlement by humans throughout time, resulting in patterns that shape the region's landscape and reflect the nation's history. First, indigenous peoples, then Europeans, and soon after, Africans established footholds in the Bay area, opening a gateway for the burgeoning nation. The early arrivals dispersed along shorelines creating patterns of settlement characterizing the new nation and reflected to this day. Later arrivals have fueled the growth of the region's metropolitan centers. Throughout, the Bay has served as magnet and crucible, attracting, defining, shaping and reconfiguring the patterns of settlements around it.

## The Bay as an Economic Resource--Commerce, Productivity and Transportation

The rich, natural abundance of the Bay has been a powerful incentive for commercial development, influencing the region's economy, transportation, and productivity. The Bay's resources and geography shaped the economic development of the region. Terrestrial and marine creatures, as well as the land and waterways, led to development of specific industries, harvesting methods, modes of transportation, and even boat designs. It is this resource-based economy and its connections to other parts of the nation and the world that are responsible for producing much of the image of the Bay area. Despite modern transformations, natural resources remain a fundamental component of the Bay's economy.

#### Military and Naval Presence on the Bay

Because of its vast waters and strategic location, the Bay has long played a critical role in the military and naval history of the United States. As the site of the nation's capital, historic battles and significant military installations, the Bay has long been intricately involved in a complex and dramatic web of national and international affairs. Today, the Chesapeake region continues to be home to a sizable military and naval presence.

#### The Bay as a Source of Recreation and Renewal

Abundant opportunities for a broad range of leisure-time activities, involving sport, education, culture and stewardship, spring from the vast resources and exquisite landscapes of the Chesapeake Bay. The traditional uses of the Bay's waters by area residents—boating, fishing, hunting—have long attracted visitors for recreation and renewal. Especially in recent decades, Bay-related recreation has become an economic force in the region. Today, the Chesapeake represents a source of inspiration and personal renewal through

its diverse recreational opportunities and the Bay's natural and cultural heritage on which they are based.

#### Environmental Stewardship and Sustainability of the Bay

The Bay and its living resources are suffering from the cumulative effects of human use and exploitation. But, new environmental attitudes, policies and behaviors offer hope for the Bay's renewal and sustainability. The realization that an ecological crisis exists has impelled residents, visitors, governments, and organizations to reassess the ways in which humans interact with the Bay and use its resources. The changes resulting from this attention are helping to restore the Bay and creating a world-wide model for environmental programs. Restoration and conservation are crucial to sustaining the Bay and its tributary rivers and streams that make such fundamental contributions to our well-being, our heritage, and our spirit.

### Section 3: Analysis of Opportunities

#### INTRODUCTION

Many National Park Service studies of potential new park units focus on detailed proposals for specific locations. The Chesapeake Bay Special Resource Study is very different. This study evaluates general concepts to determine whether it may be appropriate to establish a unit of the National Park System representing the Bay somewhere within the study area.

Rather than beginning with a place, this study began with an analysis of opportunities and gaps that might inform the development of initial, and subsequently, more detailed concepts. The opportunity/gap analysis derives from National Park Service criteria for potential new units. Along with the national significance criterion discussed in Section 2, potential new units must meet a suitability criterion – they must represent a natural or cultural theme or type of recreational resource that is not already adequately represented in the National Park System, or is not comparably represented and protected for public enjoyment by another land-managing entity.

This criterion points to assessing gaps in existing Chesapeake Bay conservation and interpretation initiatives – including the existing National Park System – as an indicator of opportunities or niches for a potential Bayfocused NPS unit. In addition, such opportunities must relate to the purposes and functions of units of the National Park System and be feasible as park units. In other words, they must consist of natural systems and/or historic settings of sufficient size and appropriate configuration to ensure long-term protection of the resources and to accommodate public use.

This section describes a gap analysis deriving from these criteria, along with the initial concepts derived from that analysis and the testing of these concepts through public workshops and comments.

#### **GAP ANALYSIS**

#### **Process**

During the Special Resource Study, a rapid "gap analysis" was used to determine gaps in conservation and interpretation of the Chesapeake Bay that might be relevant to a potential unit of the National Park System. The importance of this stems from the fact that NPS criteria steer potential new units away from duplicating something already being done effectively. Thus, park concepts or alternatives should address gaps, adding value to the ongoing Bay conservation and restoration effort.

Typically, gap analysis is used as a systematic, scientific approach for assessing the extent of protection in place for native animal and plant species. The goal is to keep common species common by identifying those species and plant communities that are not adequately represented in existing conservation lands. The results of the analysis often assist land managers and

policy makers in identifying priority areas for conservation of key habitats that are not yet threatened with extinction. (USGS, National Gap Analysis Program, 2002)

The study team adapted the typical gap analysis methods used for biological systems to assess the voids in conservation and interpretation that exist around the Chesapeake Bay. The voids, or gaps, were estimated to be appropriate proxies for new conservation and interpretation efforts. potentially involving the National Park Service. As a means for assessing the large number of Bay conservation and interpretation initiatives, the study team used the organizing frameworks of the Chesapeake Bay Program's Chesapeake 2000 agreement and the Chesapeake Bay Gateways Network. These frameworks are best equipped for providing a cross-section view of initiatives and gaps due to their broad, cross-cutting representation of resource topics, conservation elements and Bay themes. In addition, the study team reviewed and assessed existing National Park Service roles within the Chesapeake Bay region, as well as maps of public lands, natural resource areas, and cultural resources around the Chesapeake Bay. Existing NPS roles, the Chesapeake Bay Program and the Chesapeake Bay Gateways Network are briefly described below, followed by results of the gap analysis.

#### **Existing NPS Programs**

The National Park Service is involved in the Chesapeake Bay region in several ways. These are described briefly below:

#### Chesapeake Bay Program Office

The National Park Service maintains a staffed office in Annapolis, Maryland to coordinate NPS efforts with and in the Chesapeake Bay Program. NPS is one of many partners in the Chesapeake Bay Program. While there are numerous aspects to overall Chesapeake Bay Program efforts (see following pages), NPS roles focus on: enhancing interpretation and communication regarding Chesapeake Bay themes, enhancing public access to Bay and tributary waters, implementing Bay stewardship practices at existing NPS units, and assisting communities and organizations in developing locally based conservation efforts that advance Chesapeake Bay Program goals. As one core aspect of carrying out these roles, the NPS Chesapeake Bay Program Office coordinates the Chesapeake Bay Gateways Network, a partnership system of parks, refuges, historic sites, museums and water trails described more fully at several other points in this study. The Gateways Network, while intended as an ongoing system, is only legislatively authorized through 2008. In addition, the NPS Chesapeake Bay Program Office is managing this Special Resource Study.

#### Existing Units of the National Park System

There are currently three units of the National Park System in close proximity to the Chesapeake Bay: Fort McHenry National Monument and Historic Shrine (Baltimore, Maryland), George Washington Birthplace National Monument (Westmoreland County, Virginia) and Colonial National Historical Park (Yorktown Battlefield and Jamestown Island, Virginia). Arguably, each of these historic sites conserves and interprets resources and themes related to the Chesapeake Bay – Fort McHenry would

not have been developed were it not for the Bay's existence. However, none of these sites were established with the core purpose of reflecting broader Chesapeake Bay characteristics and themes. They represent a narrow slice of the Bay's history, generally focusing on the colonial and early national periods.

Though not considered a unit of the National Park System, the National Park Service also owns Lightship 116 "Chesapeake," currently docked in Baltimore and managed by the Baltimore Maritime Museum through a cooperative agreement with the City of Baltimore.

Within the 64,000 square mile Chesapeake Bay watershed, there are an additional 61 units of the National Park System. These range in size and scope from Shenandoah National Park (199,000 acres in the Appalachian Piedmont of Virginia) to the Washington, Lincoln, and Jefferson Memorials in Washington DC. Some of these units reflect themes related to the Chesapeake Bay, such as the story of transportation along Bay tributaries shown through the 184 mile long Chesapeake and Ohio Canal National Historical Park on the Potomac River. Others have relatively little thematic connection to the Bay, excepting their location in the Bay watershed. In general, however, the entire collection of NPS units in the watershed represents a very limited segment of Chesapeake Bay resources and interpretive themes, especially in the core study area for this Special Resource Study.

## Other NPS Studies Involving Chesapeake Bay Related Resources or Themes

Three separate NPS studies are also concurrently evaluating resources or themes which touch upon the Chesapeake Bay.

#### Harriet Tubman Special Resource Study

Congress directed the National Park Service to conduct a separate special resource study to look at options for protecting nationally significant resources related to Harriet Tubman. Ms. Tubman is known for her roles as a "conductor" of former slaves through the Underground Railroad, a Civil War nurse, a scout, a spy, and in her later years, a founder and operator of a home for the aged in Auburn, New York. The Harriet Tubman Special Resource Study focuses on sites in the Dorchester County, Maryland where she was born, Auburn, New York, where she lived for more than 40 years, and other Tubman sites around the nation. The Tubman study will outline alternatives for conserving and interpreting these sites and themes. Information is available at <a href="https://www.harriettubmanstudy.org">www.harriettubmanstudy.org</a>.

#### The Star-Spangled Banner National Historic Trail Study

The National Park Service has also been directed by Congress to evaluate the feasibility and desirability of creating a National Historic Trail along routes used by the British and Americans during the Chesapeake Campaign in the War of 1812. These routes are significant for their relationship to the burning of Washington and the Battle for Baltimore, the latter of which inspired Francis Scott Key to write the poem that would become the National Anthem. Most of the routes and sites associated with the trail study are concentrated on the Bay's western shore, particularly along the Patuxent

River. The trail study will outline alternatives for conserving and interpreting these resources. Information is available at <a href="https://www.nps.gov/phso/jstarspan.htm">www.nps.gov/phso/jstarspan.htm</a>.

#### Washington-Rochambeau Revolutionary Route Study

Congress also directed the National Park Service to determine whether the route the French and Continental Armies followed in 1781 from New England and New York to the Chesapeake Bay and Yorktown, Virginia is eligible for designation as a National Historic Trail. The route is significant in that it lead to the surrender of British General Cornwallis to the French and Continental Armies at Yorktown. The study will outline alternatives for conserving and interpreting this aspect of the Nation's (and the Bay's) heritage. Information is available at <a href="https://www.nps.gov/boso/w-r/">www.nps.gov/boso/w-r/</a>.

#### Other National Park Service Programs

A variety of other national programs of the National Park Service apply to resources within the Chesapeake Bay watershed in differing ways. Among these are: the National Register of Historic Places, National Historic Landmark Program, Saving America's Treasures Program, National Natural Landmarks Program, and the Land and Water Conservation Fund. These programs focus on specific types of resources nation-wide of which many are represented within the Bay watershed. For example, there are more than 200 National Historic Landmarks in the watershed, including such Bay resources as Thomas Point Shoals Lighthouse, Sotterley Plantation, the Lightship Chesapeake and others. National Historic Landmark designation means the resources have been found to meet national significance criteria, but it provides no management, funding or direct protection from the National Park Service.

#### Chesapeake Bay Program – Chesapeake 2000 Agreement

The Chesapeake Bay Program, a partnership between the federal government, the states of Maryland, Virginia and Pennsylvania, the District of Columbia, and the Chesapeake Bay Commission, guides efforts to restore and conserve the Chesapeake Bay and its tributaries.

On June 28, 2000, the Executive Council of the Chesapeake Bay Program signed *Chesapeake* 2000 – a comprehensive and far-reaching Bay agreement that guides the Bay Program partners in their combined efforts to restore and protect the Chesapeake Bay through the year 2010.

Chesapeake 2000 outlines 93 commitments detailing protection and restoration goals critical to the health of the Bay watershed. From pledges to increase riparian forest buffers, preserve additional tracts of land, restore oyster populations and protect wetlands, Chesapeake 2000 sets all partner states and agencies on specific tracks toward improving protection and restoration of the Bay and its tributaries. Scientists, government officials, conservation leaders and citizens were all involved in the development of Chesapeake 2000.

The gap analysis for this study correlates *Chesapeake 2000's* commitments with specific Chesapeake Bay resource types. The analysis then identifies areas of potential gaps that might be relevant to a potential Bay-focused unit



Chesapeake Bay Program
A Watershed Partnership

of the National Park System. Findings are summarized in the results section below

#### **Chesapeake Bay Gateways Network**

The Chesapeake Bay Gateways Network includes 140° parks, wildlife refuges, museums, historic communities and trails throughout the Chesapeake Bay watershed. The Network has an extremely broad representation of Bay conservation and interpretation sites and of Bay interpretive themes. For this reason, the Network is an effective proxy through which to evaluate gaps in resource conservation sites and interpretive themes. The Gateways Network was evaluated in terms of type and number of institutions, representation of interpretive themes, and representation of key resource types. This data is presented in Figures 3-1 through 3-3, based on the 123 Gateways designated as of April 2003. The gap analysis for this study correlates Gateways with resource types and interpretive themes to identify potential gaps that might be relevant.



#### Results of the Rapid Gap Analysis

The results of the gap analysis are organized by typical Chesapeake Bay resource types and interpretive themes described in Section 2 for which Chesapeake Bay Program and Chesapeake Bay Gateways Network data exists. Aspects of these results are supported by quantitative data presented in Figures 3-1, 3-2 and 3-3.

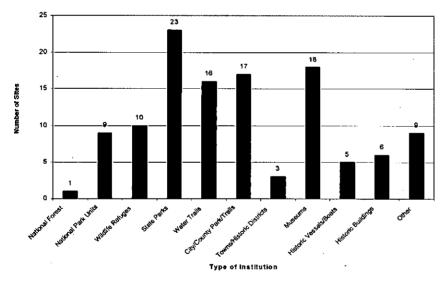


Figure 3-1: Chesapeake Bay Gateways Network sites by type of institution

<sup>&</sup>lt;sup>5</sup> As of June 2004; Chesapeake Bay Gateways are added to the Network through an ongoing nomination/designation process.

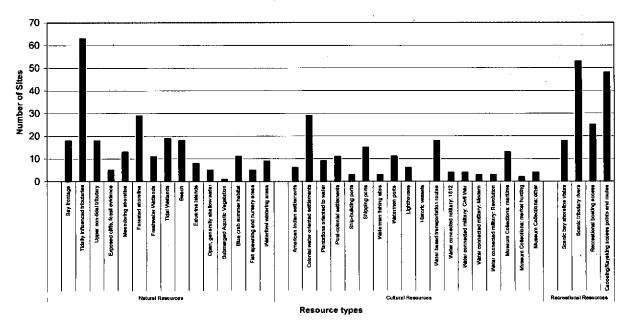


Figure 3-2: Number of Chesapeake Bay Gateways Network sites with key natural, cultural, and recreational resource types

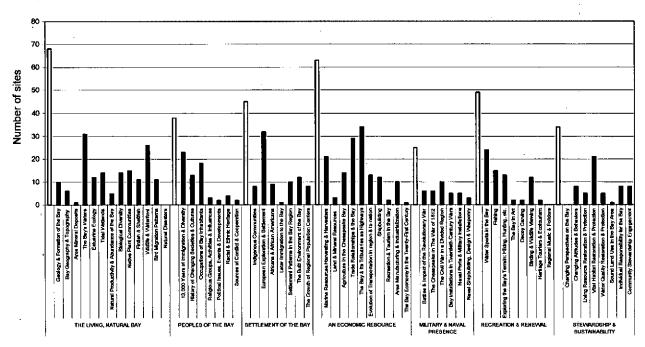


Figure 3-3: Representation of Interpretive Themes in the Chesapeake Bay Gateways Network

#### Natural Resources

#### Oysters, Crabs, and Finfish

The states of Maryland and Virginia and several inter-jurisdictional agencies are responsible for overall fisheries management in the Chesapeake Bay, including regulatory protection of a number of existing designated protected areas, sanctuaries and spawning areas. *Chesapeake 2000* sets a number of specific commitments related to oysters, crabs and migratory fisheries to be undertaken by the states and other partners. These resources represent a core focus area of existing Bay conservation efforts.

Park unit concepts could potentially complement or enhance strategies for protecting or restoring fisheries protected areas without being duplicative.

#### Waterfowl

Waterfowl wintering areas are provided at many state and federal management areas and refuges specifically created for this purpose throughout the Bay area.

Creation of a park unit specifically for waterfowl conservation purposes would be duplicative, though waterfowl conservation could be a complementary element of a larger concept.

#### Submerged Aquatic Vegetation (SAV)

Some existing federal and state regulatory mechanisms provide a level of protection for SAV which serves as critical habitat for aquatic species. A draft strategy established by the Chesapeake Bay Program calls for protected areas from which uses destructive of SAV would be excluded; the strategy is tied to a goal of protecting and restoring 185,000 acres of SAV.

Park unit concepts could potentially complement or advance an SAV protected area strategy without being duplicative.

#### Tidal Wetlands

Tidal wetlands are protected by local, state and federal regulations. In addition, a number of state, federal and non-governmental sites include and conserve tidal wetlands.

Creation of a park unit specifically for tidal wetland conservation purposes would be duplicative, though wetlands protection could be a complementary element of a larger concept.

#### **Forests**

In 2003, the Chesapeake Executive Council committed to expanding streamside forest buffers by at least 10,000 miles by 2010. *Chesapeake 2000* also commits to reducing conversion of forest and agricultural lands to sprawl development by 30%. A number of forested areas are also managed by public and private agencies for conservation purposes.

Creation of a park unit specifically for forest conservation purposes would be duplicative, though forest conservation could be a complementary element

of a larger concept. Moreover, park unit concepts could contribute to achieving *Chesapeake 2000* goals.

#### Undeveloped Lands

Chesapeake 2000 sets a goal of preserving 20% of the watershed land area from development through a series of federal, state, local, and non-governmental organization acquisitions.

Park unit concepts could contribute to achieving this goal and would be complementary, though any concept would only make a fractional contribution to the larger watershed commitment.

#### Cultural Resources

Traditional Water Dependent Communities

State and local historic preservation and economic development programs exist but do not focus specifically on this type of community. In Maryland, traditional water-dependent communities may be part of designated state heritage areas. Several Chesapeake Bay Gateways are located in such communities but do not address community-wide conservation. No *Chesapeake* 2000 commitment is set.

Park unit concepts could address conservation/interpretation objectives for such communities within designated areas.

#### Working Bay Landscapes

General state and local historic preservation, conservation and economic development programs address aspects of these landscapes but do not necessarily focus exclusively or specifically on this type of resource. For example, state heritage areas in Maryland may assist in marketing and interpreting aspects of working landscapes within designated heritage areas, but not overall landscape conservation. No specific *Chesapeake 2000* commitment is set for this resource, though goals for increasing land conservation and limiting harmful sprawl development are relevant.

Park unit concepts could address conservation/interpretation objectives for such landscapes within a designated area.

#### Historic Military Sites

Multiple sites related to Revolutionary, War of 1812 and Civil Wars are already protected and represented with the Gateways Network. Twentieth century era military bases exist, but many are still in active use and not feasible for incorporation in a park concept.

#### Recreational Resources

#### Public Access

Strategies to meet the *Chesapeake 2000* goal of a 30% increase in public access sites are being identified. Less than 2% of the Bay's shoreline is estimated to be publicly accessible.

New park unit concepts could contribute to achieving this goal and would be complementary, though any concept would only make a fractional contribution to the larger watershed commitment.

Water Trails (recreational boating, canoe/kayak access)
The Chesapeake 2000 goal to add 500 miles of water trails has been met
through state, local and non-governmental efforts represented in the
Chesapeake Bay Gateways Network's multiple water trails. More than 1000
miles of water trails are under development.

Park unit concepts could complement this effort, but creation of a unit for this purpose alone would be redundant with ongoing efforts unless it adds substantial new elements not possible through existing authorities.

#### Open Water Boating

Chesapeake 2000 calls for identification of priority areas for no-discharge of boat waste by 2003; a few small areas are currently designated.

Park unit concepts could potentially complement a designated area strategy for no discharge zones without being duplicative.

#### Interpretive Themes

**Overarching Themes** 

Few sites address Bay-wide overarching themes as primary emphasis of programming.

#### Primary Themes

All primary themes are broadly represented through multiple sites, but interpretation of primary themes themselves – as they play out over the full Bay – is limited. Most sites focus on topics or sub-themes. Listings below show numbers of sites with capability to present themes (i.e. sites have resources related to those themes present); the numbers do not indicate that sites are actively interpreting those themes.

Living, Natural Bay: 50+ sites. Under-represented sub-themes include: Bay geography and geology.

Peoples of the Bay: 30+ sites. Under-represented sub-themes include: Racial and ethnic heritage, political events, religious influences, sources of conflict.

Settlement of the Bay: 30+ sites. Under-represented sub-themes include: Later immigration, growth of regional population centers, Africans and African-Americans.

Bay as an Economic Resource: 50+ sites. Under-represented sub-themes include: Recreation and the economy, industrialization, 21<sup>st</sup> century Bay economy.

Naval/Military History of the Bay: 20+ sites. Under-represented sub-themes include: Naval ship-building, naval ports and military installations.

Bay as a Recreational Resource: 40+ sites. Under-represented sub-themes include: The Bay in art, music & folklore.

Stewardship and Environmental Responsibility: 30 + sites. Under-represented sub-themes include: Living resource restoration, water quality restoration, and sound land use.

#### **Summary of Findings**

The on-going initiatives addressing Chesapeake Bay conservation, restoration and interpretation are extensive, but not complete. The Chesapeake Bay Program partnership clearly guides and coordinates an overall conservation and restoration strategy. Currently, the Chesapeake Bay Gateways Network links scores of diverse sites and routes for experiencing the Bay and serves as an illustrative cross-section of site-based ongoing conservation and interpretation. However, there are still gaps or opportunities within this large picture of the Bay. In some cases those gaps are well beyond the scope of any single initiative, let alone a concept for a Chesapeake Bay focused unit of the National Park System. For example, the Chesapeake Bay Commission identified an estimated financial gap in carrying out all of the Chesapeake 2000 commitments - the total cost: \$18.7 billion, with \$12.8 billion of that amount unfunded (Chesapeake Bay Commission, 2003). On the other hand, the gap analysis described above points to several opportunities or niches which might be relevant to a park unit concept. These niches include:

- Expanded natural resource conservation, especially aquatic resources, in a focused area that complements and goes beyond current programs;
- Enhanced recognition, conservation and interpretation of broad cultural resource areas, specifically working landscapes and traditional water dependent communities;
- Interpretation and conservation of areas that fully represent both the cultural and natural characteristics of the Chesapeake Bay;
- Interpretation of broad overarching and primary Chesapeake Bay themes at a Bay-wide level providing the overall introduction to the Chesapeake Bay story;
- Expanded land conservation, public access, and education through a park unit concept and contributing to Chesapeake Bay Program commitments in these areas;
- Incorporation of under-represented topics/sub-themes and resources in a park unit concept, where those topics are a relevant contribution to a broader Bay-focused concept; and,
- Continuing the Chesapeake Bay Gateways Network as a permanent system for exploring the Chesapeake Bay and enhancing interpretation, public access and conservation.

These niches or opportunities provided the basis for initial concepts presented during the study and are described below.

#### INITIAL CONCEPTS

The results of this gap analysis led to the development of a series of initial concepts and ultimately provided the basis for the alternative concepts presented in Section 4 of this report. Through an initial consultation with Chesapeake Bay Program stakeholders, six initial concepts were developed as starting points for public discussion and feedback. These initial concepts

were presented to the public in a series of public workshops in September 2002, as described in the following section.

#### The initial concepts were:

Concept I – A Conserved Traditional Working Bay Town: Establish a historical area or reserve comprised of a small traditional working Chesapeake Bay town/community. This town or community would be illustrative of the interconnection between culture and place in the Chesapeake region. The primary focus would be on conserving and interpreting the areas as a living example of the Bay's unique working communities and their long-standing relationships with the Bay.

Concept 2 – The Nation's Estuary: Establish an aquatic ecological preserve representative of the Chesapeake's estuarine environment and centered on one or several substantial open Bay systems with limited portions of adjacent shoreline. The primary focus would be on conserving and interpreting estuarine resources and natural systems from an aquatic perspective.

Concept 3 – Living with the Bay: Establish an ecological and cultural reserve representative of the Bay's estuarine environment and the human interaction with that environment over time. Such a reserve would center on a substantial open Bay aquatic system and the surrounding lands indicative of Bay-oriented human use, both past and present. The mission of this reserve would be to conserve, interpret and provide access to estuarine resources, natural systems, and associated land-based cultural resources.

Concept 4 – The Watershed in Microcosm: Establish an ecological and cultural reserve representative of a cross-section of the Bay watershed from upland to open Bay and island. This cross-section would follow one particular tributary watershed. The primary focus would be to provide an understanding of the Chesapeake Bay watershed, its stewardship challenges, and the relationship between the cultural and natural aspects of the landscape over time.

Concept 5 - Chesapeake Bay Interpretive Center: Establish one, or series of, educational and interpretive centers to enhance understanding and interpretation of the Chesapeake Bay and provide a central "Bay" clearinghouse for visitors, researchers, educators, and conservationists.

Concept 6 - The Islands of the Chesapeake: Establish a series of natural and cultural preserves or parks representative of the Chesapeake's estuarine island environment, centered on uninhabited islands with adjacent inhabited islands and aquatic open Bay waters. The primary focus would be to conserve and interpret island resources and diverse natural systems within a relatively small area. The focus on the island environment allows visitors to truly experience the resource and be "on the Bay."

#### PUBLIC EVALUATION OF INITIAL CONCEPTS

At a series of public workshops in September 2002, through the mail, and via the project website, people commented on the six initial concepts described above and were encouraged to suggest new concepts or combinations of the existing concepts. People were asked to evaluate whether the initial concepts:

- Represent opportunities or niches in Chesapeake Bay resource protection and interpretation not duplicated by existing initiatives;
- Capture the national significance, key resources and themes that reflect what is truly characteristic of the Chesapeake Bay;
- Represent feasible conceptual options for National Park System units.

#### In general, the public expressed:

- Broad interest in and affirmation of the idea of creating a unit of the National Park System focused on the Chesapeake Bay;
- Public education should be emphasized, including addressing principles of Bay and watershed stewardship, preservation, and conservation;
- A broad array of resources and stories should be incorporated with emphasis on the interconnectedness of natural and cultural resources;
- Multiple experiences and resource characteristics from the northern and southern Bay and eastern and western shores should somehow be addressed;
- Public access to the Bay should be enhanced; an optimal visitor experience should include getting onto or into the water;
- A strong preference for combining elements of the initial concepts rather than selecting any single concept by itself; no single concept can adequately represent the size and diversity of the Bay;
- Including a Chesapeake Bay interpretive and education center as a launching point for visitors and researchers and as an integral component of other concepts;
- The need for any concept to employ partnerships and cooperative agreements with institutions, landholders, and government agencies in order to assemble resources and build on existing efforts; and,
- National recognition should be used to add cachet, bring more funding for Bay restoration, publicize Bay issues, integrate interpretation of natural and cultural components, and highlight the Bay as a model for resource protection and research.

Members of the public also offered specific comments on each concept and combinations of concepts. Frequently mentioned emphases included:

- Elements of all concepts ought to be combined or represented in a final preferred approach;
- Concepts 3 and 4 (Living with the Bay and The Watershed in Microcosm) represented approaches more likely to encompass the breadth and diversity of Bay themes; moreover, these could be a basis for combining with portions of other more narrow concepts such as an island ecosystem or an interpretive center;
- Several concepts seemed either too narrow to reflect the Bay all by themselves (Concepts 1 and 6) or appeared to have feasibility issues (Concept 6);
- Concept 5 (Chesapeake Bay Interpretive Center) was a high priority, but optimally as part of another concept rather than as a stand alone result.

Several new concepts were also suggested. These ideas included:

- Building on the existing Chesapeake Bay Gateways Network and designating it as a permanent unit of the National Park System;
- Creating a national historical reserve that protects traditional fishing and crabbing rights for fishing-dependent communities;

 Creating a Harriet Tubman National Park to communicate the Underground Railroad story (the proponents' idea actually extends far beyond the Chesapeake region, but participants suggested a main site that would address the role of the Bay in the story; a separate Harriet Tubman Special Resource Study is being conducted at this time).

For a more complete summary of comments see issue 2 of the study newsletter (available at <a href="https://www.chesapeakestudy.org">www.chesapeakestudy.org</a>).

Following public workshops in September 2002 and submission of written comments, the study team sorted comments and presented them to an interdisciplinary group representing the Chesapeake Bay Program partnership. The group worked together during a facilitated worksession to build specific conceptual alternatives from the public comments and initial concepts. After similar ideas were grouped together, teams outlined a no action alternative and four conceptual action alternatives.

These conceptual alternatives were then elaborated upon to include a description, vision, essential resource types, themes, interpretive potential, and roles. The group along with the study team made an initial determination that each of the five conceptual alternatives appeared to fill gaps in existing Bay interpretation and conservation and were not duplicative of existing National Park System units. These alternatives are described in Section 4.

### Section 4: Conceptual Alternatives

#### INTRODUCTION

The alternatives described here are concepts for how the Chesapeake Bay might be represented within the National Park System. They are the product of numerous interviews, consultations, workshops, public meetings, and team meetings involving individuals, groups, organizations, and public officials with a range of interests in a Chesapeake Bay-focused unit of the National Park System: county, city, state, and federal officials; politicians; natural and cultural resource managers; technical experts; tourism officials; citizens' groups; trade organizations; and the general public.

These alternative concepts provide different answers to the questions: If a Chesapeake Bay-focused unit of the National Park System were to be created...

- What would it be like?
- What focus or emphasis would it have?
- What types of resources would need to be included?
- What would be the conservation goals or priorities?
- What would it be like to experience as a visitor?
- What roles might various partners and the National Park Service play in managing it?

Five alternative concepts are presented:

- Alternative A: Today's Programs No New Initiatives
- Alternative B: An Enhanced Chesapeake Bay Gateways Network A
  Permanent Watershed-wide System of Special Bay Places for
  Experiencing the Chesapeake
- Alternative C: Chesapeake Bay Estuary National Park Conserving and Exploring the Bay's Waters
- Alternative D: A Chesapeake Bay National Reserve Protecting Bay Maritime and Rural Heritage
- Alternative E: Chesapeake Bay Watershed National Ecological & Cultural Preserve – A Living Example for the Bay and the Nation

Of these five alternatives, one (alternative A) is a "no action" alternative that would simply continue current National Park Service roles in the Chesapeake Bay. This also provides a point of comparison for understanding what is new and different in four "action alternative" concepts which vary significantly (alternatives B, C, D & E). One of these, alternative B, is quite different from the others and would not technically be labeled as a unit of the National Park System.

The task is to determine which of the four "action alternative" concepts – if any – might most appropriately represent the Chesapeake Bay within the National Park System and best enhance the ongoing effort to conserve, restore and celebrate the Bay. Between June and September 2003, the National Park Service solicited broad public advice and comments on this

question. With one exception (alternative B)\*, there are no specific places proposed as the location where the alternative concepts would apply. Alternatives C, D and E are truly conceptual alternatives. The Chesapeake Bay Special Resource Study focuses not on a specific place, but on seeking consensus on what kind of unit of the National Park System – if any – might best represent the Chesapeake Bay. The concepts presented here as alternatives provide the basis for that discussion. In considering the concepts, interested people can also begin to think about "place" and the kinds of locations that might fit with the descriptions and characteristics of each alternative.

#### **Aspects Common to All Action Alternatives**

Each of the action alternatives presents a different way for conserving, interpreting and celebrating aspects of the Chesapeake Bay. Despite these differences, there are some common aspects. Each of the action alternatives:

- Assumes a continuation of existing NPS roles in the Chesapeake Bay as
  legislatively authorized and funded. In other words, elements of the no
  action alternative would continue in the same manner under any of the
  action alternatives, except where specifically changed by new legislation,
  such as in alternative B. NPS would continue to manage existing units of
  the National Park System, participate in the Chesapeake Bay Program
  and coordinate the Chesapeake Bay Gateways Network through 2008;
- Involves extensive cooperative or partnership efforts with a variety of organizations or agencies, though in varying roles, ways and degrees;
- Envisions a unique visitor experience directly engaging people with authentic resources that represent core aspects of the Chesapeake Bay;
- Provides a variety of interpretive and recreational opportunities for visitors to explore, learn about and enjoy the stories of the Chesapeake Bay;
- Encourages conservation of both public and private resources related to the Chesapeake Bay's natural and cultural history;
- Incorporates strategies for protecting private property rights;
- Plans use of low-impact, sustainable design for any new construction of visitor facilities; and,
- Contributes to, but is by no means the complete solution for, overall conservation and restoration of the Chesapeake Bay and its tributaries.

<sup>&</sup>lt;sup>6</sup> Alternative B is based on the existing Chesapeake Bay Gateways Network, a system of more than 140 specific parks, refuges, historic sites, maritime museums and water trails around the Bay watershed. All of these places would continue in the Network under this alternative.

## ALTERNATIVE A: TODAY'S PROGRAMS – NO NEW INITIATIVES

This alternative assumes the National Park Service would continue its existing roles related to Chesapeake Bay conservation, restoration and interpretation. Generally, these roles include:

- Partnership in the Chesapeake Bay Program, the federal/state Bay watershed conservation and restoration effort;
- Management of existing National Park System units in the Chesapeake Bay watershed;
- Coordination of the Chesapeake Bay Gateways Network through 2008;
- Providing technical assistance to communities and organizations to facilitate conservation of watersheds, natural and cultural resources.

#### A Vision of the Status Quo

Visitors to the Chesapeake Bay region would not find a new national park unit focused on the Bay, but they would find many places that tell a part of the Chesapeake story. They might visit the handful of existing parks in the National Park System located near the Bay – Fort McHenry National Monument and Historic Shrine, Yorktown Battlefield, Jamestown Island. These places provide a small slice of the Bay's history, concentrated in colonial times and the early nineteenth century.

Or for a much broader taste of the Bay, visitors might sample the many parks, refuges, historic sites and water trails that have joined the Chesapeake Bay Gateways Network. These places show off many of the Chesapeake's themes and stories, from one end of the watershed to the other. At the great majority of Chesapeake Bay Gateways, the National Park Service would remain very much behind the scenes, acting only as a coordinator for the overall Network and providing assistance to individual sites. The Gateways Network, and the Park Service coordinating role would remain in place through 2008.

All those with an interest in the Chesapeake Bay would continue to benefit from the Chesapeake Bay Program partnership's efforts to conserve and restore the Bay. The Chesapeake Bay Program would remain the central mechanism for advancing Bay conservation. The National Park Service is just one of many partners in the Bay Program.

#### Description

#### Partnership in the Chesapeake Bay Program:

In 1983, the Chesapeake Bay Program was created as a partnership between the federal government (represented by the US Environmental Protection Agency), the states of Maryland, Virginia and Pennsylvania, the District of Columbia, and the Chesapeake Bay Commission to guide efforts to restore and conserve the Chesapeake Bay and its tributaries. The National Park Service joined the partnership in 1993.

<sup>&</sup>lt;sup>7</sup> A fourth NPS unit is nearby but actually outside the Chesapeake Bay Watershed – Assateague Island National Seashore along the Atlantic Coast in Maryland and Virginia.

Today, the Chesapeake Bay Program pursues a variety of commitments articulated in the *Chesapeake 2000* agreement. This agreement addresses all aspects of Bay conservation, management and education in the first decade of the 21st century.

Chesapeake 2000 also renewed an emphasis of the program on engaging all citizens in the effort to restore the Chesapeake Bay. Commitments to expand public access and enhance resource interpretation, education and outreach are priorities in order to raise public awareness and promote individual and community stewardship on behalf of the Bay and its watersheds. The National Park Service is currently directly involved in furthering these aspects of the Chesapeake 2000 agreement through initiatives described below; the National Park Service would continue that involvement under this alternative.

## Management of Existing Units of the National Park System in the Chesapeake Bay Watershed

The National Park Service manages 61 park areas within the 64,000 square mile Chesapeake Bay watershed. Most of these areas are parks within the District of Columbia and upper Bay watershed. The sum total acreage of the National Park System units represents less than 0.7% of the Bay watershed.

There are three existing units of the National Park System in close proximity to the Chesapeake Bays – Colonial National Historical Park (9,349 acres, including Jamestown Island, Yorktown Battlefield, a 23 mile parkway, and the Cape Henry memorial) in Virginia, Fort McHenry National Monument and Historic Shrine (43 acres) in Baltimore, Maryland, and George Washington Birthplace National Monument (550 acres) along the lower Potomac River in Virginia. These small park units all have resources and stories related to and influenced by the Chesapeake Bay, but the Chesapeake is not the primary focus of conservation or resource protection. Moreover, these units also represent only a narrow slice of Bay-related themes and history.

The National Park Service would continue to manage existing park areas within the Bay watershed for their specifically legislated purposes. No new unit of the Park System would be created. In addition, through its partnership in the Chesapeake Bay Program, the National Park Service would continue efforts to manage its park units to further commitments in the *Chesapeake 2000* agreement.



The National Park Service is directly involved in furthering the commitments of the Chesapeake 2000 agreement by engaging citizens to restore the Bay, enhance interpretation, and raise public awareness.





Fort McHenry National Monument and Historic Shrine in Baltimore, Maryland and Colonial National Historical Park (Jamestown Island pictured) in Virginia are two of the units of the National Park System close to the Bay.

<sup>&</sup>quot;Though not considered a unit of the National Park System, the National Park Service also owns Lightship II6 "Chesapeake," currently docked in Baltimore and managed by the Baltimore Maritime Museum through a cooperative agreement between NPS and the City of Baltimore.









The Chesapeake Bay Gateways Network is a broad and diverse group of sites that collectively represent the Bay and its watershed. Pictured here, from top to bottom, are: the Pickering Creek Audubon Center, Easton, Maryland: the Eastern Neck National Wildlife Refuge, Rock Hall, Maryland; the Havre de Grace Decoy Museum, Havre de Grace, Maryland; and the Reedville Fisherman's Museum (Northern Neck Chantey Singers, pictured), Reedville, Virginia.

#### Coordination of the Chesapeake Bay Gateways Network:

The existing Chesapeake Bay Gateways Network is a partnership system of local, state, federal and non-governmental parks, refuges, maritime museums, historic sites and trails around the Bay watershed. With more than 140 designated Gateways, the Network represents a broad and diverse group of sites that collectively represent the Bay and its watershed. The Gateways Network is coordinated by the National Park Service in cooperation with the Chesapeake Bay Program. The Chesapeake Bay Gateways Network is currently authorized through 2008, though funding must be appropriated annually.

Under this alternative, the Chesapeake Bay Gateways Network would continue to represent the broadest geographic and thematic system of Bayrelated sites in the Chesapeake watershed through 2008. Some expansion of the Gateways Network might be expected to continue in under-represented geographic regions or themes. However, this would likely be limited if funding for the Network's programs is not appropriated or eventually reauthorized.

Through the Gateways Network's many partner sites, visitors can explore a remarkably broad range of themes, places and geography. Individual Gateways would likely continue to enhance interpretation at their sites and to enhance public access, depending upon available funds and priorities. However, Gateways Network matching grants have had a substantial influence on Chesapeake Bay interpretive products in recent years. If funding for Network programs is not appropriated or eventually reauthorized, Chesapeake Bay focused interpretive initiatives may become more limited.

Individual Chesapeake Bay Gateways would continue to strive toward setting examples for sustainable stewardship of the Bay watershed's natural, historic, cultural and recreational resources. Managers of individual Gateways would continue to explore and undertake initiatives at their sites toward that end, consistent with available funding.

#### Technical Assistance for Conserving Watersheds and Natural and Cultural Resources:

The National Park Service would continue to provide technical assistance to communities, organizations and local and state governments to foster conservation of important resources in the Chesapeake Bay watershed. This assistance, provided through the Chesapeake Bay Program Office and the Rivers, Trails and Conservation Assistance Program, is specifically geared to helping achieve goals of the Chesapeake 2000 agreement. For example, the National Park Service is partnering with the Chesapeake Bay Program for a series of "community watershed dialogue" workshops to engage local governments and community groups in local watershed management. NPS will provide follow-up technical assistance to local areas requesting help with watershed management planning.

#### Roles

Coordination of the overall Chesapeake Bay watershed conservation and restoration strategy would continue to be led by the Chesapeake Bay Program partnership.

#### The National Park Service would:

- Continue to participate in the Chesapeake Bay Program, with a focused emphasis on enhancing interpretation, education and outreach and expanding public access as key tools for raising public awareness and promoting individual and community stewardship;
- Continue to manage existing units of the National Park System within the Bay watershed, consistent with their individual legislation and Chesapeake Bay agreements;
- Continue to coordinate the Chesapeake Bay Gateways Network in cooperation with the Chesapeake Bay Program, as long as funding for the Network is authorized and appropriated. This role includes:
  - Guiding Chesapeake Bay Gateways Network development and management in coordination with the Gateways Network Working Group.
  - Developing Network-wide initiatives, media and programs to publicize the Network and advance Bay-watershed-wide interpretation.
  - Providing technical assistance and matching grants to designated Gateways to improve Bay interpretation, enhance public access and conserve Bay resources.
- Continue to provide technical assistance to communities, organizations, and local and state governments to foster conservation of watersheds and natural and cultural resources in the Bay watershed.

# ALTERNATIVE B: AN ENHANCED CHESAPEAKE BAY GATEWAYS NETWORK- A PERMANENT WATERSHED-WIDE SYSTEM OF SPECIAL PLACES FOR EXPERIENCING THE CHESAPEAKE

This alternative would enhance and build upon the existing Chesapeake Bay Gateways Network, an extensive partnership system of parks, refuges, maritime museums, historic sites and trails around the Bay watershed. The Chesapeake Bay Gateways Network would retain current core aspects and characteristics, but be enhanced to fill several identified gaps in Bay conservation and restoration. It would:

- Be designated as a permanent program of the National Park System with an on-going funding commitment, giving the Network a continuity limited by current legislation;
- Stimulate the creation of and add two partnership Chesapeake Bay interpretive/education centers; and
- Create a new means of linking Gateways to their surrounding working Bay landscapes.



The Chesapeake Bay is a place of tremendous diversity. It is hard to take in the whole Bay story at one location. The existing Chesapeake Bay Gateways Network, represented here, helps visitors experience the Bay and its watershed with more than 140 parks, refuges, maritime museums, historic sites and hundreds of mile of water trails. This alternative would add to the Gateways Network, enhancing it in several ways.

#### A Vision of the Enhanced Chesapeake Bay Gateways Network

The Chesapeake Bay is a place of immense complexity and astounding diversity. The region's natural splendor extends from forest to farm field, from small town to big city, from trickling stream to wide-open shipping lane, from New York State to Norfolk and West Virginia to Delaware. So many events unfolded here over the centuries that have proved crucial to the nation's cultural, military, and economic history.

In recent years, the Chesapeake Bay Gateways Network has made important strides in helping people experience the Bay's incredible diversity. More than 140 different sites are already in this one-of-a-kind Network, from the shores of the Bay into the distant reaches of the Chesapeake watershed. A comprehensive web site and an annual map and guide empower the visitors to find their way to all manner of Chesapeake destinations: museums, refuges, historic towns, hundreds of miles of water trails, even sailing ships. And both enable travelers to launch all manner of Chesapeake adventures: hiking, paddling, birding, cycling, strolling, and more.

Of course, the Network is much more than a travel-planning tool. Through visiting Gateways – paddling new water trails, seeing new exhibits, hearing

living stories – people begin to understand the full picture of the Bay, how all of the individual places fit together and why the Bay is so important.

But, this alternative also takes the Gateways Network to a new level. By making a permanent commitment to the Chesapeake Bay Gateways Network, the National Park Service would ensure its long-term viability and enhance the Chesapeake's status among the country's national treasures. Through two Chesapeake Bay interpretive and education centers in the northern and southern parts of the Bay visitors would finally find a holistic introduction to this complex region and its watershed. Each center would be a portal through which to view the Bay's "big picture" stories and themes, and a starting point from which to explore the scores of other Gateways. In addition, the Network would broaden its focus to help interpret and conserve important landscapes linked to existing Gateways. These places already loom large in the public's image of the Bay; now, visitors will be able to explore them in more depth and with an eye toward a clean future for the Bay.

### **Key Elements of the Enhanced Chesapeake Bay Gateways Network**

### Continuing Core Aspects of the Chesapeake Bay Gateways Network that Will Continue:

The Chesapeake Bay Gateways Network would continue as an extensive watershed-wide, partnership system of sites and trails for experiencing the Chesapeake Bay. Chesapeake Bay Gateways would continue to be linked through a comprehensive *Map & Guide* and website, and carry out programs and initiatives to tell the Bay stories associated with each site, provide public access to Bay resources and foster involvement in Bay conservation efforts. The National Park Service would continue to coordinate the Gateways Network and provide technical and financial assistance to designated Gateways, though the sites and trails would continue to be managed by a variety of local, state and federal agencies and non-governmental organizations.

#### Bay Resources Represented:

The Gateways Network would continue to represent the broadest geographic and thematic system of Bay-related sites in the Chesapeake watershed. The Network would be expected to continue a natural pattern of slow expansion, as new sites are added in under-represented geographic regions or themes. Currently, multiple sites represent each of seven principal Bay themes and the diverse Bay-related resources associated with them, including:

- The Living, Natural Bay
- Peoples of the Bay
- Settlement of the Bay
- The Bay as an Economic Resource: Commerce, Productivity and Transportation
- Military and Naval Presence on the Bay
- The Bay as a Source of Recreation and Renewal
- Environmental Stewardship and Sustainability of the Bay

In addition, scores of sub-themes are represented through more than 140 Gateways.

Experiencing the Chesapeake Bay through the Gateways Network

The Gateways Network would continue to provide the broadest and most diverse way for visitors to experience the Chesapeake Bay and its watershed. Through the Network's many sites, travelers can encounter Bay stories in many ways – while touring picturesque lighthouses, paddling winding creeks, sailing old skipjacks, strolling wooded trails, visiting historical sites and savoring local traditions. The diverse stories and experiences at each of these places fit together like a puzzle, with each new tale adding to the whole. It is through this Network of special places that visitors come to see the breadth of the Bay's influence and the links between all of the Bay's special places. This in turn reconnects people with the importance of individual and joint efforts to conserve and restore the Bay.

Individual Gateways vary greatly in the focus and scope of their visitor services and programs, depending on their specific circumstances. Yet, individual sites and trails would continue to enhance interpretation of Bay stories at their sites and to expand or enhance public access, especially to the water. Scores of new exhibits, wayside panels, programs, water trail maps and guides and access points are already under development or in place. In addition, materials, media and other products for interpreting Bay-wide themes and orienting people to the entire Gateways Network would continue to be developed and distributed.

#### Conserving and Restoring the Bay

As members of a Network of special Bay places, individual Chesapeake Bay Gateways would continue to strive toward setting examples for sustainable stewardship of the Bay watershed's natural, historic, cultural and recreational resources. Managers of individual Gateways would continue to explore and undertake initiatives at their sites toward that end.

Due to the great variety of organizational mandates and missions of individual Chesapeake Bay Gateways, the types of activities, uses and conservation/restoration efforts at Gateways would continue to be highly diverse. Gateway managers would continue to operate their sites consistent with those missions and the principals of the Gateways Network.



The Chesapeake Bay Gateways Network would be enhanced in three key areas to address identified gaps in current interpretation and conservation of the Chesapeake Bay, as follows.

Designating the Chesapeake Bay Gateways Network as a Permanent National Park System Program

The Gateways Network would be authorized as a permanent program of the National Park System. This would not change the management status of individual Gateways; they would continue in existing ownerships and management approaches. Rather, the designation would recognize the national significance of the Chesapeake Bay and the special and necessary role of the National Park Service in facilitating the telling of the Bay story



The National Park Service would coordinate the Chesapeake Bay Gateways Network as a permanent program for the Chesapeake Bay.

through the Gateways Network. Moreover, it would recognize the unique abilities and characteristics of the Chesapeake Bay Gateways Network partnership to address the Bay's breadth, magnitude and diversity. Designation as a permanent program of the National Park System would provide a long-term federal commitment to the unending importance of the Bay story, rather than the current short-term role stemming from the existing Gateways Network legislation which sunsets in 2008.

#### Chesapeake Bay Interpretive Centers

Two new partnership interpretive centers would be created to fill a key gap in communicating the Bay story – a lack of opportunities for residents and visitors to grasp an introduction to the broadest Bay and watershed-wide themes. These centers would introduce people to those themes and orient visitors to the Network and where to experience its places and stories. Visitors would find a range of interpretive programming, activities and facilities focusing on overarching and principal Bay themes, as well as maps of the entire Network, on-line opportunities to explore other sites and plan trips and physical and interpretive links to nearby sites. In addition, the centers might provide web and television interpretive and educational programming and links as a tool for reaching off-site audiences.

The two centers would be developed through partnerships with other organizations or existing institutions. They could be in existing buildings or possibly expanded or new structures. Regardless, they would be located where a combination of geography, transportation systems and services concentrate large numbers of people at opposite (southern and northwestern) portions of the Bay, with a direct view of Bay waters, fulfilling an earlier vision of Gateway hubs in these locations. They would be nearby authentic natural, cultural, historic or recreational Bay resources. In effect, the two centers would be high visitation starting points through which people would get a first impression of the Bay and from which they would begin a longer exploration at other sites. The centers would not attempt to duplicate the experiences available in and around the Chesapeake, but they would help orient visitors to the Bay and other sites and enhance visitors' understanding of the resources they will experience directly.

#### Working Bay Landscapes

Working farm, forest and maritime landscapes are not currently included within the Chesapeake Bay Gateways Network. However, they clearly provide the setting and context for many of the Network's sites, trails, resources, themes and stories. They also provide opportunities for people to explore the very fabric of the Bay region itself.

This alternative would help extend the benefits of the Gateways Network to working Bay landscapes. Existing designated Gateways would continue to be able to develop tours or programs that address the landscapes around them. In addition, state designated heritage areas and rural historic districts containing designated Gateways, and river corridors along Gateways Network water trails, would be eligible for Gateways Network technical and financial assistance (matching grants) to support conservation efforts. Financial assistance would be targeted at grants for conservation easements and conservation plan development or implementation.



Under Alternative B, two interpretive centers would be added to introduce visitors to Bay-wide themes and orient them to the many sites for experiencing the Bay.



In addition to the existing resource types represented in the Chesapeake Bay Gateways Network, certain landscapes would be eligible for Gateways technical and financial assistance for conservation initiatives.

#### Roles

The Gateways Network would continue its unique and innovative role as a partnership system of special Bay places, managed by a variety of public and private institutions.

Overall guidance and coordination of the Gateways Network would be carried out in much the same fashion as it is today by the National Park Service in cooperation with a multi-organizational board or coordinating body, similar to the current Chesapeake Bay Gateways Network Working Group. The board or coordinating body would include representatives of the Chesapeake Bay Program, the natural resources, historic resources and tourism agencies of Maryland, Pennsylvania and Virginia, federal agencies managing designated Gateways, representatives of other designated Gateways and key private sector organizations. The board would continue the Working Group's role in coordinating overall policy guidance for the Gateways Network, including: on-going planning for the Network, developing policy and priority recommendations, evaluating additions to the Network and project proposals, and coordinating interagency commitments and programs.

National Park Service roles might include:

- Continuing to lead development of Network-wide orientation and interpretive materials, in partnership with various cooperators;
- Continuing to set standards for Network participation, interpretation and graphics, in consultation with the Gateways Network board and designated Gateways;
- Continuing to provide a range of technical assistance to designated Gateways, including new technical assistance for conservation of working landscapes and maritime communities;
- Maintaining an annual matching grants program to assist designated Gateways in improving interpretation, public access and conservation restoration;
- Providing new grants for conservation planning, conservation easements and public access site acquisition (willing seller only) within designated types of landscapes;
- Partnering with a non-governmental support organization to attract and develop financing for interpretive, education and conservation programs; and,
- Entering into a long-term partnership for each of two Bay interpretive centers. The National Park Service would provide a legislatively set amount of federal 1:1 matching funds (\$2.5 million each) for development of the centers. A priority would be placed on expansion of existing institutions as opposed to new development. The National Park Service would also enter into a partnership agreement addressing operations, programming and interpretation at the centers.

Local and state government, other federal agency and non-governmental organization roles might include the following:

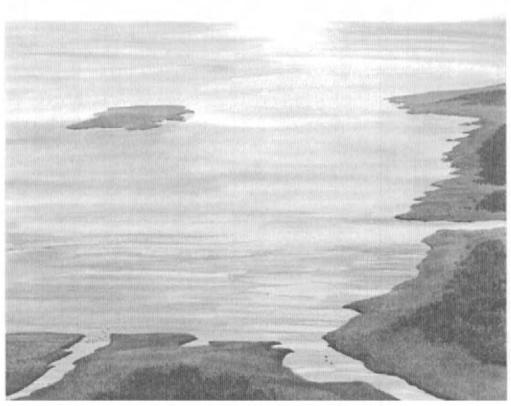
• Continuing to manage designated Gateways to enhance interpretation of Chesapeake Bay watershed themes, improve public access to Bay

- resources in a sensible and sustainable manner, and foster conservation and restoration of Bay resources;
- Participating in the coordinating board or body guiding the Chesapeake Bay Gateways Network;
- Providing technical assistance to designated Gateways;
- Partnering on development of the two Bay interpretive centers;
- Partnering on conservation programs within designated types of landscapes.

## ALTERNATIVE C: CHESAPEAKE BAY ESTUARY NATIONAL PARK – CONSERVING AND EXPLORING THE BAY'S WATERS

The Chesapeake Bay is a vast estuary – 2,500 square miles of water – internationally known not just for its size, but also its high productivity as a natural system. As the lifeblood of the Chesapeake is water, this alternative would create a primarily water- based national park that exemplifies the larger Bay's core aquatic, estuarine character, with only limited land resources for context, public access and interpretation. In brief, the national park would:

- Encompass a reasonably large, but still proportionally small water area representative of core aspects of the whole Chesapeake Bay's estuarine environment and including limited, but related shoreline ecosystems and island environments;
- Protect aquatic and other natural resources within the park area as a high quality natural system, reflecting the Bay's importance as habitat, breeding ground and refuge for countless species at all points in their lifecycles:
- Provide public access that allows visitors to explore, enjoy and learn about the estuary and its resources while preventing any degradation of the estuary's natural systems;
- Interpret the Chesapeake Bay as an outstanding natural system, and the importance and influences of human interaction with it, through a landbased visitor orientation/interpretive center and other programming in the park.



The Chesapeake Bay is all about water – over two thousand square miles of it – and the diverse aquatic life it supports. This alternative would create a water-based national park in one portion of the Bay. It would reflect the Chesapeake Bay's rich estuarine life.

#### A Vision of a Chesapeake Bay Estuary National Park

At a Chesapeake Bay Estuary National Park, visitors might explore in depth the natural marvels of one of the world's largest estuaries. They might roam marshlands, stroll beaches, visit islands and paddle open waters. They could admire up close the incredible bounty of the Bay: its fish, its birds, its vegetation, and its beauty. And they would discover firsthand the dynamics of a healthy Bay.

The first stop for visitors to such a park might be an on-shore interpretive & orientation center. Here, with a scenic vista of open Bay waters as a backdrop, the broader Chesapeake story would unfold. Compelling exhibits and innovative programs would focus on the park's estuarine theme while drawing the whole of the Bay and its watershed into the picture.

Most of the park would be out in the Bay's open waters, and a key aspect of the park's mission would be to protect a sample of the Bay's precious aquatic environment and contribute to restoring the whole Bay's full health. Still, the public would have numerous opportunities to get out on the water, whether during tours of a Bay island or paddling trips along shore.

The park's land area would be limited in size, but not in appeal or significance. Here, visitors might explore such critical habitats as wetlands,

marshes, and grasslands. They'd be able to see for themselves why healthy beds of submerged aquatic vegetation are so crucial to crab and oyster populations. They'd learn how diverse aspects of our collective lifestyle can affect the health of the Bay for better and for worse.

The park would not be an isolated destination. Visitors could also learn about other Chesapeake destinations, both near and far. When they depart, they'd do so armed with a new appreciation for how important the Bay is and why they should explore the Chesapeake region in more depth.

#### Key Elements of the Chesapeake Bay Estuary National Park

#### Bay Resources Represented:

A national park area focused on the estuary would include resources typical of the Bay's open waters, marshes, islands, beaches, and associated shoreline. Essentially, such a park should include:

- A large contiguous water area that has some recognizable identity as a portion of the larger Bay;
- Estuarine aquatic communities such as submerged aquatic vegetation (SAV) beds, oyster beds, water bird feeding areas, deep and shallow open waters, islands;
- Shoreline tidal ecological communities such as shorelines, beaches and tidal marshes;
- Suitable areas for public access along the shoreline to provide for land and water-based interpretation, education and recreation;
- A suitable location for an interpretive center providing physical and interpretive orientation to the park and the entire Bay and serving as a launching point for interactive experiences in the park and other Chesapeake Bay sites.

The size of the park could vary depending on the specific characteristics of a particular area. Typically national parks are relatively large encompassing a substantial enough area to represent and ensure protection of the core resource base.

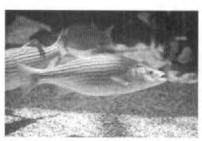
#### Conserving and Sustaining the Park:

A core goal of this alternative would be to conserve, protect, and restore the estuarine environment and natural resources represented within the park area in as close to a pristine condition as possible.

This goal recognizes the significant ecological function of the Bay as a natural system and the importance of protecting certain core areas as close-to-pristine environments. Such an area would provide habitat, breeding ground and refuge for countless species at all points in their lifecycles. Moreover, it would benefit the broader estuary and the millions of people who depend on it. An estuarine park would protect these natural resources through three key principles:

Protect and preserve estuarine resources: The estuarine park's
preservation goals would aim towards the level of protection necessary
for sustaining the area as a high quality natural system with healthy
populations of native species. Public ownership or management of core





By protecting and restoring aquatic resources, a Chesapeake Bay Estuary National Park would reflect the Bay's importance as habitat, breeding ground and refuge for countless species.

estuarine resources would be most compatible with this goal, whereas consumptive, commercial uses might be incompatible. Limited acquisition of existing lands or rights might be needed primarily to provide a base for interpretation and administration on a small area of the shore. With multiple state and federal agencies involved in management of aquatic systems and resources, a cooperative joint management plan would be developed to ensure consistent, integrated science-based approaches to resource protection, management, public access and other aspects of the park. Research and monitoring of natural systems and resources would be encouraged.

- Restore key fragile natural resources: Given centuries of human use in the Bay, most areas have seen some impacts to key natural resources. The most prominent examples include submerged aquatic vegetation (SAV) and oyster beds. The park would be a focus site for restoration of such key resources through public and voluntary efforts. Restored areas would expand the park's ability to serve as a protected base supporting the overall Bay system. In addition, scientists would use the park as a place for learning how best to restore water habitats, making it a living laboratory for restoration.
- Provide public access in a manner that encourages learning and enjoyment and does not degrade natural systems: Public access to Bay resources is critically important to fostering support for and involvement in Bay conservation and stewardship. Within the park, public access would be developed and managed to achieve this fundamental purpose, but also managed to avoid impairment of natural systems. Local, state and federal government and the private sector would be involved in the cooperative joint management planning process to design approaches to meeting this principle. The specific characteristics of public access would be dependent on the resources of a potential park area, but generally, uses such as boating, sailing, canoeing, kayaking, swimming, hiking, and recreational fishing would be expected to be compatible.



A visitor would come to enjoy and understand the Chesapeake Bay as a remarkable natural system through experiencing the waters and estuarine resources of the park. That experience might include:

- Primary orientation at a land-based interpretive center: This facility would introduce visitors to the park, its themes and stories, and a series of experiences throughout the park. In addition, it would provide an introduction to overarching Chesapeake Bay themes and further opportunities for exploring the Bay beyond the park. The center should be accessible by multiple forms of transportation (water-based, vehicles, bicycles, pedestrians). It should also be within view of the water and nearby natural or recreational sites.
- Group tours, planned itineraries and established programs providing visitors with a variety of experiences: Opportunities would exist for visitors to participate in planned programs or to design their own visit with experiences on the open water, at islands, marshes or along the shore. This might include canoe, kayak and sailing tours and experiences





The Park would serve as a living laboratory for scientists to learn how to best restore water habitats. Visitors would also have enhanced access to the water to explore the Bay's environment on and in the water.

in the underwater environment, where appropriate, through glass boat tours or scheduled dives. Interactive experiences with researchers and scientists might also be available as appropriate.

Access for a variety of populations: The park would provide access to
visitors with varying degrees of physical abilities, available time and
desired outcomes. It would accommodate multiple forms of
transportation to the park, provide a range of experiences tailored to
visitors, and provide a virtual interpretive experience for those who are
unable to visit the park first hand, wish to pre-plan activities, or visit the
reserve but do not venture out onto the resource.

Through the resource-based experiences, tours, interpretive center, and various sites, visitors would be introduced to and come to recognize:

- The Chesapeake Bay as a vast, diverse, productive and sensitive natural system the natural, living Bay;
- The lasting dependence of people on the Bay's natural functions, coupled with the Bay's dependence on human decisions and actions for its future well-being;
- A range of related themes and sites beyond the park where they can continue their exploration of the Chesapeake Bay.

#### Roles

As for any park, partnerships with different levels of government, neighboring communities and the private sector would be important to this alternative. Particularly important would be collaborative efforts among the varying agencies involved in management of aquatic systems and resources. Depending on the characteristics of any potential park area, this might involve cooperative management agreements and a cooperative joint management plan.

National Park Service roles might include:

- Entering into cooperative management agreements with other public land management agencies within the park;
- Coordinating and leading park management planning, including any
  cooperative joint management plans, such as for aquatic resources; a final
  park management plan(s) would be approved by the Secretary of the
  Interior;
- Carrying out resource management activities in cooperation with other park partners;
- Developing a comprehensive interpretive plan, in cooperation with other park partners;
- Developing and carrying out interpretive programming;
- Developing and operating the park's interpretive center;
- Acquiring lands, waters, or development rights necessary to protect resources within the park or provide for public access.

Local and state government, other federal agency and non-governmental organization roles might include the following, depending on the characteristics of any potential park area:

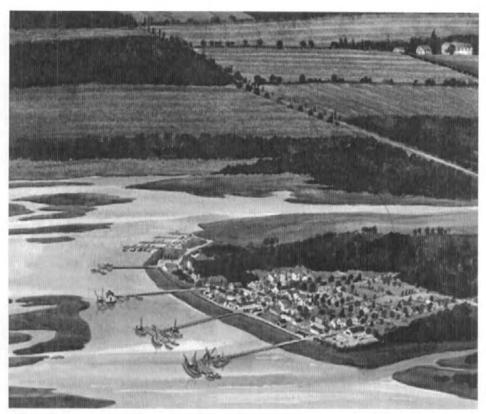
Participating in management planning for the park;

- Managing existing public lands and waters to meet park management plan objectives;
- Partnering on resource inventories, conservation and restoration programs, and research and monitoring programs;
- Carrying out conservation initiatives and land use planning to mitigate impacts on estuarine resources from waters or lands outside the park;
- Acquiring sensitive resource lands or public access points;
- Developing or providing tours and other services.

## ALTERNATIVE D: A CHESAPEAKE BAY NATIONAL RESERVE – PROTECTING THE BAY'S MARITIME AND RURAL HERITAGE

National reserves protect and sustain the working landscape, recognizing the vital role of continued human uses in the heritage and character of a special place. This alternative would create such a national reserve representative of the Chesapeake Bay's internationally recognized maritime and rural agricultural heritage. Briefly, the reserve would:

- Encompass a reasonably large area of publicly and privately owned lands and waters reflective of the Bay region's maritime and rural, agricultural heritage;
- Retain the living, working character and pattern of human use of the lands and waters;
- Conserve the reserve landscape, protecting it from sprawl development and the conversion of resource lands to developed uses;
- Protect traditional resource dependent activities (commercial and recreational fishing, crabbing, oystering, agriculture, forestry) and manage the resources for permanently sustainable use;
- Protect high priority, sensitive natural and cultural resources:
- Interpret the Chesapeake Bay's heritage through media and programming at a central interpretive center and multiple partner sites within and beyond the reserve;
- Be fully dependent on a partnership approach to management, involving local, state and federal government and the private sector.



The Chesapeake's abundance created a working landscape tied to the Bay. Watermen, farmers and residents of maritime communities all depend on the Bay in one way or another. Today, this is part of what makes the Chesapeake a very special place. This alternative focuses on protecting and sustaining that working, living landscape and the traditions it reflects.

#### A Vision of a Chesapeake Bay National Reserve

A Chesapeake Bay National Reserve would provide visitors and residents with a generous serving of the true Bay landscape and culture. A reserve would not only include memorable scenery and natural abundance in forests, on shores, and along streams. But here, the human dimension of life on the Bay would come to the forefront as well. In addition to natural areas, a reserve would encompass small fishing towns, rural communities, working farmlands, and perhaps even historic factories.

Land in the reserve would be mostly privately owned, just as it is all around the Bay. But the reserve and its resources would be managed through a strategy recognizing the special national significance of this region. Maritime communities inside the reserve would strive to remain living, breathing places where residents remain in touch with traditional ways. Along shorelines in the reserve would sit boatyards where Chesapeake watermen still ply their centuries-old trades. Existing and new visitor sites, tours and events might focus on such aspects of Bay life as the seafood industry, plantation life, small-town life and key historic settlements.

Managed by a partnership between private citizens and local, state and federal governments through a coordinating board, this reserve will also

embrace conservation efforts that focus not just on natural environments, but on cultural and economic ones as well: How can farms thrive in ways consistent with protecting the long-term health of the Bay? What patterns of development offer the best hope for preserving the special qualities of Chesapeake life? What strategies and tools give the commercial fishing industry the best chance to thrive in the decades ahead?

An array of significant natural areas would also be included in this reserve – state parks, refuges and perhaps newly protected sensitive natural sites. Thus, the reserve would also encompass samples of the broad shores, winding riverbanks, deep forests and wetlands that help shape the Bay. Opportunities will abound for visitors and residents to explore the beauty of the Chesapeake region in exhibits, recreational activities, and educational programs—not just at a central interpretive center, but also at numerous partner sites within the reserve's boundaries.

## Key Elements of the Chesapeake Bay National Reserve Concept

#### Bay Resources Represented

A representative reserve area would include resources typical of the Bay region's aquatic, rural, maritime and agricultural heritage within one contiguous area. This means it should include:

- One or more waterfront maritime communities and the maritime resources associated with them (e.g. traditional waterfront industries, historic and modern commercial structures, boatyards, fishing piers/wharves, seafood processing operations);
- · Agricultural and forest lands;
- Historic and cultural resources representing the Bay's long maritime and agricultural heritage (e.g. historic settlement sites, plantations, wharves, etc.):
- Bay and Bay tributary shoreline;
- Shoreline tidewater ecological communities (beaches, tidal marshes, and grasslands);
- Estuarine aquatic communities (open Bay waters, submerged aquatic vegetation (SAV), oyster beds, crabbing areas, possibly islands);
- Public access points at Bay and river shorelines;
- Existing protected lands, such as state parks, refuges, natural areas, etc.

The size of the reserve could vary depending on the characteristics of any specific area. Reserves are typically 15,000 acres or much larger in size, encompassing a broad enough area to effectively represent and conserve the characteristic resources.

#### Conserving and Sustaining the Reserve

A core goal of this alternative would be to conserve and sustain the traditional working landscape, waters and natural and cultural resources within the reserve that reflect the Bay's heritage.

This goal recognizes that the interaction and interconnectedness of the Bay's natural environment and human use and settlement over time is what gives





National reserves protect and sustain the working landscape, recognizing the vital role of continued human uses in the heritage and character of a special place.

the Chesapeake its nationally significant character. Historical and modern patterns on the working landscape reflect this - from early American Indian settlements to colonial plantations to maritime communities to today's watermen and crabbing industry. A reserve would conserve and sustain the basis of these patterns and the viability of the landscape through three key principles:

- Retain the living, working pattern of privately owned lands and human uses
  of land and water, complemented by protection of key sensitive resource
  areas: A reserve would be predominantly privately owned with a mix of
  traditional uses. Yet it could also include certain protected lands (both
  public and non-profit) for which private ownership and use is
  impractical, such as certain high priority sensitive natural areas,
  recreational or public access sites and certain historic sites.
- Conserve the reserve landscape, allowing change to occur, but protecting
  against sprawl development and the conversion of resource lands to
  developed uses: A reserve would employ a locally adopted and
  implemented comprehensive management plan for guiding land use and
  resource protection on all lands within the reserve. The plan would set
  guidelines limiting sprawl development and conversion of farm and
  forest lands to non-resource uses and protecting important natural and
  cultural landscape features, such as stream corridors and maritime
  community historic districts.
- Protect traditional resource dependent activities (commercial fishing, crabbing, oystering, agriculture, forestry) from development pressures and managing resources for sustainable use: Resource dependent uses are particularly sensitive to development pressures. A reserve would include a purchase of development rights program aimed at protecting resource dependent uses. Purchasing development rights on sensitive farmlands, forests, and fisheries infrastructure sites (picking houses, workboat docks) helps keep these areas in production by removing development pressures and providing the owners with funds to reinvest in their businesses.

#### Experiencing the Reserve

In the mind's eye, the Chesapeake is a broad expanse of water surrounded by lands farmed and forested for centuries. A multitude of rivers, streams, creeks and wetlands flow through these lands, on which watermen have crabbed and fished for an equal length of time. This is the Bay's working landscape, something that anyone must experience to truly know the Bay. That experience would be guided in several ways:

• A primary interpretive/education center would introduce visitors to Chesapeake Bay themes and orient them to a series of experiences and sites throughout the reserve. It would be a true portal to other public and private sites in the reserve that collectively help illustrate the working landscape. The center would accommodate multiple modes of transportation (water-based, vehicles, bicycles, pedestrians) and be located near a complex of natural, cultural and recreational sites, such as on existing public lands or in a maritime community.





The reserve would reflect the Bay's rural and maritime heritage by including and conserving part of the working Bay landscape and waters—maritime communities, farm and forest lands, fisheries and more. The reserve would also support fishing, farming and forestry by helping to keep these traditional Chesapeake Bay uses sustainable well into the future.



Visitors would have enhanced opportunities to experience the authentic Bay. An interpretive center would introduce the Bay's heritage and link people with a variety of existing visitor sites and programs.

- Self-guided tours, group tours, planned itineraries and established programs would provide visitors with a variety of experiences on the open water, in the community, at sites and in the broader reserve landscape.
- *Individual sites throughout the reserve* would be primary places for visitors to learn and experience more of the Chesapeake. Parks, refuges, historic sites, trails and water trails within the reserve would provide the sitespecific Bay stories and programs, events, festivals, exhibits and tours of the Bay landscape.

Through the landscape, center, tours and sites, visitors would come to recognize:

- The dynamic interconnectedness of water, place, nature and people in the Chesapeake region over time;
- How the Bay region's resources have shaped human use and settlement of the region and conversely, how human use has changed the Bay and the surrounding landscape; and
- The lasting dependence of people on the Bay and its resources, coupled with the Bay's dependence on human decisions and actions for its future well-being.

#### Roles

This alternative depends on a vital and engaged partnership among local, state, and federal government and the private sector. While the details of such a partnership would vary depending on the size, location and constituents of a reserve, typical roles would be expected to follow certain general patterns.

Overall guidance and coordination would typically be carried out through an appointed multi-partner board or commission. This entity would represent core reserve partners, such as local, state and federal government and the private sector. It would provide the primary forum for addressing reservewide planning and implementation. For example, this entity would typically develop a reserve comprehensive management plan in collaboration with the National Park Service, as well as other reserve partners and stakeholders. This entity would also typically set reserve-wide priorities for implementing aspects of the plan.

National Park Service roles might include:

- Providing technical and financial assistance for comprehensive management planning;
- Transmitting the final comprehensive management plan to the Secretary of the Interior for approval;
- In cooperation with state government, providing administrative and logistical support for the coordinating board or commission;
- Developing a comprehensive interpretive plan, in cooperation with other reserve partners;
- Providing 1:1 federal matching funds for development of the reserve's interpretive center;
- · Providing interpretive staffing for the interpretive center;
- · Giving technical assistance and small matching grants for enhancing interpretation at sites within the reserve;

- Providing technical assistance for conservation of cultural resources within the reserve;
- Providing matching grants to the state(s) for purchase of development rights on sensitive resource lands, or, carrying out a purchase of development rights program for willing sellers when matched by equal funding from another non-federal partner.

Local and state government, other federal agency and non-governmental organization roles might include the following:

- Participating in the board, commission or coordinating body for the reserve in comprehensive management planning and interpretive planning;
- Coordinating and targeting relevant existing technical and financial assistance programs to assist in development and implementation of the reserve;
- Adopting and implementing the comprehensive management plan and ensuring consistency with the plan;
- Continuing to manage existing public lands;
- Partnering on development of the interpretive center and other interpretive projects;
- Partnering on implementing a purchase of development rights program for the reserve.

## ALTERNATIVE E: CHESAPEAKE BAY WATERSHED NATIONAL ECOLOGICAL & CULTURAL PRESERVE – A LIVING EXAMPLE FOR THE BAY AND THE NATION

The Chesapeake Bay is fed by over 124,000 miles of rivers and streams from a 64,000 square mile watershed. It is a complex ecological and cultural system where tributaries greatly influence the Bay. This alternative would establish a national ecological and cultural preserve focused on one exemplary Bay tributary – from headwater stream to open Bay and islands – as a representative cross-section of the larger Bay watershed. The preserve would:

- Conserve and restore the tributary ecosystem such that human uses are in optimal balance with natural processes, ensuring a vital, sustainable and clean future;
- Protect key natural resources and river shorelines along a core riparian area of the primary tributary river and some or all of its feeder streams;
- Demonstrate and apply the best in evolving land and resource stewardship practices on public and private lands throughout a resource conservation area encompassing the entire tributary watershed;
- Provide a series of opportunities for visitors to experience and learn about the transition of natural areas from headwaters to Bay and how human actions influence the health of the Bay system;
- Engage the private sector, local, state and federal government as partners in creating a sustained, focused national model of watershed stewardship.

#### A Vision of a Chesapeake Bay Watershed National Ecological & Cultural Preserve

In a National Ecological & Cultural Preserve, visitors would experience the Chesapeake Bay along the natural flow of a single tributary as it runs from upland headwaters down to the open Bay. Whether taken by car or foot or bicycle or kayak, the journeys available along this corridor would put travelers in direct touch with the diverse places and activities that create, feed and influence a new future for the Chesapeake Bay – the watercourses of the Bay watershed.

Human uses would be visible throughout the preserve, but they would lie lightly on the land. Always, the rivers and their riparian corridors would seem a revered element of the landscape – with forested stream banks and healthy wetlands filled with the sounds of birds and wildlife. Conservation and restoration programs adopted here – in an environment that supports a full range of modern human activity, from farms to residences to towns to businesses—will be an inspiring model for the stewardship of vital natural habitats and the restoration of water quality all across Bay country.

Through a central interpretation/orientation center and out in the preserve, visitors would find a range of exhibits, sites and programs revealing how the elements of the preserve watershed fit into the complex mosaic of the Chesapeake as a whole. Through these experiences visitors might see the way toward a bright future for this national treasure as they learn both how we have influenced the Bay in the past and how we can sustain its vital functions tomorrow.



Water flows into the Chesapeake from hundreds of rivers and streams, altogether draining a vast area of land. How we use and care for that land directly influences the Bay's future. This alternative focuses on caring for one Bay tributary and its surrounding watershed as a national model for sustainable use and stewardship.

#### Key Elements of the Concept

#### Bay Resources Represented

The ecological and cultural preserve would track one significant mid-sized (15 to 50 mile) Chesapeake Bay tributary river ending in the main body of the Chesapeake Bay and encompass important components of its surrounding landscape. Within a core riparian area, resources particularly important to be represented include:

- Headwater ecological communities (freshwater marshes, swamps, headwater streams, and upland/headwater forests)
- Riparian ecological communities (shorelines, river beaches and islands, wetlands and tidal marshes)
- Estuarine aquatic communities (submerged aquatic vegetation, oyster beds, deep and shallow open water, islands)

Beyond the core riparian area and extending to the boundary of the watershed, the preserve should encompass an array of land uses. In essence, the sum of the preserve landscape, wildlife, human settlements, and watercourses should offer enough diversity of natural and cultural resources to illustrate watershed ecological processes, historic interaction of humans with the landscape, contemporary land use issues, and emerging, progressive resource stewardship practices.

The overall size of the preserve would vary depending on the characteristics of the specific tributary river, but this preserve would be expected to encompass many square miles.

#### Conserving and Sustaining the Resource

A core goal of the reserve would be to conserve and restore the tributary ecosystem so that human uses are in optimal balance with natural processes, ensuring a vital and sustainable future. This would be achieved through the following principles, as applied in a core riparian area (encompassing the water and riparian zone of the primary tributary river and some or all of its feeder streams) and a resource protection area (including the remainder of the tributary watershed).

Protect and restore vital natural resources within the core riparian area: Within the core riparian area, vital natural habitats retaining a high degree of integrity would be protected in as near a pristine state as possible. Other important natural habitat types could be conserved even if the integrity is partially compromised; these areas would be the focus of restoration efforts to enhance their habitat value for living resources. Collectively, these natural resource areas would represent a series of habitat types from headwaters to open Bay. Ideally, these natural resource areas would form a core publicly owned series of nodes of the preserve along the tributary. This might be through existing local, state or federal land-holdings. Some fee simple acquisition from willing sellers or land donations may be appropriate. Public lands would also provide public access for experiencing and learning about the preserve (see below).





A national ecological and cultural preserve would follow one Bay tributary from headwater trickle to open Bay, including lands within the tributary's watershed. Visitors could experience the transition from headwaters to Bay, and learn how people influence the Bay system.

- Conserve riparian shorelines within the core riparian area: Conservation
  easements and incentives for applying best management practices would
  be used to conserve riparian shorelines. The objective of these initiatives
  would be to establish as near possible a contiguous forested or vegetated
  riparian buffer along rivers and streams in the core area.
- Protect and restore water quality throughout the preserve: Encompassing an entire Bay tributary river's watershed, the reserve would appropriately include a mixed pattern of public/private ownership and land uses. How these lands are managed directly influences water quality and the viability of the tributary ecosystem. Working landscapes within the preserve would continue in economic production, but best management practices would be developed and applied to protect tributary water quality from all point and non-point sources of polluted runoff. This would be coordinated through a watershed management plan developed by state and local government in consultation with the National Park Service. Development of the plan would require the firm commitment of local, state and federal government and the private sector to create and apply incentives, assistance and programs to support best management practices watershed-wide. These might involve a range of options from tax incentives, technical assistance services, local zoning and design review and purchase or transfer of development rights.
- Illustrate how sustainable management practices can help restore the
   Chesapeake Bay: In total, the preserve would be managed to illustrate
   how sustainable land use management practices can protect water quality
   and living resources, and thus the environmental and economic viability
   of our communities. Partnerships would be developed to facilitate public
   access to and interpretation of managed resource lands of high
   demonstration value. Opportunities would be sought to demonstrate
   wastewater treatment technologies, and progressive management
   techniques such as low impact development, conservation landscaping,
   nutrient trading, and riparian buffering.

#### Experiencing the Preserve

The Chesapeake Bay is linked with our national identity. It is big, bold, and has influenced many of the major story-lines of the Nation's history. It illustrates the interdependent relationship we have with an outstanding natural ecosystem. Yet, the Bay is feeling the cumulative effects of hundreds of years of human use and the more than 15 million people living within the watershed. The future of the Chesapeake hangs in the balance - its loss of biodiversity and abundance, symbolic of a national and global pattern. This alternative responds directly to this challenge, by setting an example for conserving and illustrating stewardship of an entire tributary system. The national ecological and cultural preserve would allow visitors to experience the beauty, influence and function of the Bay environment through an entire tributary system. Moreover, visitors would experience a place dedicated to sustainable stewardship and human use of that environment. Unique within the National Park System, this would allow visitors to understand the place and how to ensure its future. The preserve would present a broad array of resource stories and experiences to build this understanding. The experiences would be guided in a number of ways:

- A primary interpretive/education center would introduce visitors to Chesapeake Bay watershed themes and resources and orient them to a series of experiences and sites throughout the preserve. The center would accommodate multiple modes of transportation (water-based, vehicular, bike, pedestrian) and be located near a complex of natural resource sites, such as on publicly protected lands with the preserve's core area. The center would be a "portal" to visit key resource sites throughout the preserve and other resource sites around the Bay. The center would also partner with a wide range of organizations and individuals to present programming on current and evolving stewardship practices.
- Self-guided and group tours, planned itineraries and established programs
  would provide visitors with a variety of experiences along the riparian
  corridor from headwaters to open Bay and at sites within the preserve's
  working landscape.
- Demonstration sites throughout the preserve would be primary places for visitors to learn about innovative and sustainable management practices in agriculture, forestry, and commercial and residential development. Visitors would have opportunities to personally participate in traditional practices and conservation and restoration activities.

Through the programming for these experiences, visitors would come to recognize:

- What the Bay was like as a natural system at the time of first European contact and how it has changed since;
- The nature and characteristics of a Bay tributary watershed from headwaters to open Bay waters;
- The interconnected and interdependent relationship and influences between people and the Chesapeake's natural systems;
- How stewardship of land and water resources is taking place to ensure a sustainable balance between human uses and ecological functions and how those principles and actions can be applied elsewhere.

#### Roles

Similar to other alternatives, this alternative depends on a vital and engaged partnership among local, state, and federal government and the private sector. While the details of such a partnership would vary depending on the size, location and constituents of a preserve, typical roles would be expected to follow certain general patterns.

Like alternative D, overall guidance and coordination would typically be carried out through an appointed multi-partner board or commission. This entity would represent core preserve partners, such as local, state and federal government and the private sector. It would provide the primary forum for addressing preserve-wide planning and implementation. For example, this entity would typically develop the preserve's comprehensive watershed management plan in collaboration with the National Park Service, as well as other reserve partners and stakeholders. This entity would also typically set reserve-wide priorities for implementing aspects of the plan.



The preserve would also serve as a national model for stewardship. Throughout the preserve, stewardship efforts would help restore natural systems, continue human uses in sustainable ways, and demonstrate the best in evolving practices.

National Park Service roles might include:

- Providing technical and financial assistance for comprehensive watershed management planning; facilitating strategic planning among the collaborating partners;
- Transmitting the final comprehensive management plan to the Secretary of the Interior for approval;
- In cooperation with state government, providing administrative and logistical support for the coordinating board or commission;
- In cooperation with other preserve partners, developing a comprehensive resource protection plan for key resources within the preserve's core area;
- Acquiring, owning and managing select resources, as appropriate within the preserve's core area;
- Partnering to develop conservation easements for resource protection and interpretive cooperative agreements or memorandums of understanding, as appropriate within the preserve's resource protection area;
- Providing I:I matching funds for development of the interpretive/education center and partnering with other institutions to ensure on-going operations;
- Assisting with interpreting key themes and resources, including
  providing financial and technical assistance, and in some cases providing
  interpretive personnel at key sites (through MOUs and cooperative
  agreements);
- Providing financial and technical assistance for resource conservation, restoration and management in a focused geographic area, emphasizing demonstration of innovative and sustainable management practices.

Roles of state and local government, other federal agencies and non-governmental organization partners might include the following:

- Participating in the board, commission or coordinating body for the preserve and in the comprehensive watershed management planning and interpretive planning;
- Partnering with the National Park Service to identify and inventory key resources for protection within the preserve's core area;
- Continuing to manage existing public lands and acquiring and managing select resources, as appropriate within the preserve's core area;
- Adopting and implementing the comprehensive watershed management plan and ensure consistency with the plan; partnering on implementation of the range of stewardship incentives, assistance and programs for the preserve;
- Partnering on funding, development and management of the interpretive/education center;
- Interpret key themes and resources at key sites;
- Demonstrating innovative and sustainable management practices throughout the preserve.

#### **COMPARING ALTERNATIVES AND THEIR ORIGINS**

This draft study provides two means of comparing the five conceptual alternatives. Table 4-1 provides a comparison of some of the basic characteristics of the alternatives and how they match with NPS criteria and other factors. Table 5-7 in Section 5 provides a comparison of the environmental impacts of the five alternatives.

Those individuals and organizations who participated in the early stages of the SRS may look at how the conceptual alternatives relate to the 6 initial concepts and the public comments on those initial concepts. The description below provides a brief overview of those connections.

Alternative A: Today's Programs - No New Initiatives
A no-action alternative provides a basis for comparing action alternatives
with the status quo. Moreover, a no-action alternative must be included in a
draft SRS to meet the requirements of the National Environmental Policy
Act.

Alternative B: An Enhanced Chesapeake Bay Gateways Network - A Permanent Watershed-wide System of Special Bay Places for Experiencing the Chesapeake Alternative B originated directly out of public comments at the September 2002 public workshops suggesting that the Gateways Network should be permanently sustained as the primary way of experiencing the Chesapeake. The alternative was enhanced to reflect public comments about the need for an interpretive center (initial concept 5) and gaps in landscape conservation. Through expansion of the number of sites represented in the Gateways Network, this alternative could also address comments regarding underrepresented themes.

Alternative C: Chesapeake Bay Estuary National Park - Conserving and Exploring the Bay's Waters

Alternative C grew out of initial concept 2 (the Nation's Estuary), but incorporates some elements of initial concepts 5 (Chesapeake Bay Interpretive Center) and 6 (Islands of the Chesapeake). This reflects comments suggesting that the latter initial concepts were limited or problematic by themselves.

Alternative D: A Chesapeake Bay National Reserve - Protecting the Bay's Maritime and Rural Heritage

Alternative D grew partly out of initial concept 3 (Living with the Bay), but with substantial changes to reflect public comments. It incorporated a substantial emphasis on the working landscape and protecting traditional uses and built in elements of initial concepts 1 (Conserved Traditional Working Bay Town), 5, and 6. This alternative also hold many opportunities for incorporating a range of themes related to the Chesapeake's rural and maritime heritage mentioned as under-represented in some public comments.

Alternative E: Chesapeake Bay Watershed National Ecological & Cultural Preserve - A Living Example for the Bay and the Nation
Alternative E grew partly out of initial concept 4, but incorporates some elements of initial concepts 5 and 6.

Table 4-1: Comparison of Alternatives

	Alternative A Today's Programs – No New Initiatives (Status Quo)	Alternative B Enhanced Chesapeake Bay Gateways Network	Alternative C Chesapeake Bay Estuary National Park	Alternative D Chesapeake Bay National Reserve	Alternative E Chesapeake Bay Watershed National Ecological & Cultural Preserve
Core Elements	Continue management of existing NPS units. Coordinate Chesapeake Bay Gateways Neework through 2008 Continue participation in Chesapeake Bay Program  Bay Program	Enhance existing Chesapeake Bay  Awaking it permanent program for exploring and experiencing the Bay watershed Adding 2 partnership interpretive facilities  Linking with and providing conservation assistance for designated Bay-related landscapes	Establish estuarine national park unit.  • Encompassing large water area representative of broader Bay's estuarine environment and limited, related shoreline • protecting aquatic resources in close to pristine condition • providing public access • providing public access • interpreting Bay as natural system through interpretive center and programming	Establish national reserve: reflecting Bay's rural maritime, agricultural heritage • protecting traditional resource dependent activities and working character of landscape • conserving reserve landscape • interpreting Bay heritage through interpreting Bay heritage through sites in reserve: • using broad partnership approach to management	Establish ecological & cultural preserve:  - conserving/restoring 1 Bay tributary ecosystem  - protecting natural resources along riparian area of tributary - demonstrating best stewardship practices on lands throughout sub- watershed - interpreting stewardship at interpretive center, natural areas and demonstration sites - using partnerships for broad range of stewardship incentives
Geographic Scope	Existing NPS units near Bay: Fort McHenry (Baltimore), George Washington Birthplace (Lower Potomac, VA), Colonial (Jamestown & Yorktown, VA) Gateways Network: Through 2008, multiple sites (140+) around watershed	Multiple sites (146+), watershed-wide	Likely a single contiguous area in one location; extensive in size, but proportionately small relative to whole Bay	Likely a single contiguous area; size could vary substantially depending on specifics of location; still, proportionately small relative to whole Bay region.	Focused on one Bay tributary and its subwatershed.
Resources Represented (see pp. 12-13 for a complete list of typical Bay resource types)	Existing NPS units near Bay. Primarily colonial and early 19" century cultural resources. Gateways Network: Through 2008, would represent virtually all types of Bay resources.	Virtually all types of Chesapeake Bay Securces would be permanently represented through the 140+ sites and trails in the Chesapeake Bay Gateways Network	Primarily aquatic natural resources, with limited shoreline ecological communities	Broad range of natural and cultural accounces associated with rural maritime and agricultural landscape and communities	Broad range of natural and cultural resources typically found along Bay irributanies, but with extra emphasis on representing series of sample ecological communities from headwaters to estuary.
Themes Represented (see pp. 13-15 and Appendix A for a complete list of Chesapeake Bay themes)	Existing MPS units near Bay. Primarily settlement and military themes associated with colonial and early 19th century periods Gateways Network: Through 2008, would represent all primary Bay themes and most sub-themes or topics.	All primary Chesapeake Bay themns and most sub-chemes or topics, would be permanently represented through the 140+ sites in the Chesapeake Bay Caleways Network. Would add Caleways Network. Would add comprehensive introductions to overarching and primary themes through interpretive facilities.	Primary themes: Natural, Living Bay Subthemes: Specifics would depend on location, but generally: estuarine ecology, tidal wetlands, natural productivity, topogical diversity, native plant communities, finitish & shellfish, wildlife & waterfowl.	Primary themes: Bay as an Economic Revource; Peoples of the Bay; Settlement of the Bay; Natural, Living Bay as an Economic Actual Bay; Natural, Living Bay but generally. Marine Resources & Harvesters, Agriculture, Trade Relationships, Shipbuilding, Changing Societies & Cultures, Occupations, Settlement Patterns, Estuarine Ecology, Finfish & Shellifsh.	Primary themes: Environmental Slewandship & Sustainability, Living, Natural Bay, Settlement of the Bay, Bay as an Economic Resource Subthernes: Would cover a series of topics in each primary theme, with specifics dependent upon the location at which the concept might be applied.
Conservation (See altenatives narrative in Section 4 for more complete description)	Existing MPS units near Bay. Protect natural and cultural resources within three relatively small historical parks Gateways Network: Through 2008, provides marching grants for conservation, interpretation and public access projects at designated Gateways Chesapeake Bay Program: Technical assistance to communities for watershed assistance to communities for watershed assistance to communities for watershed conservation	Making Gateways Network permanent extends technical and financial assistance (matching grants) for conservation and other purposes at Gateways beyond current 2008 sunset.  Also extends conservation assistance to certain Bay landscape areas (confidors along water trails, designated heritage areas, rural historic districts).  Interprets importance of conservation stewardship broadly as element of all participating Gateways.	Focuses on preserving and restoring adquatic resources within park area as a high-quality natural system. Would involve state and federal agencies in cooperative management plan for aquadic resource protection and restoration, management, and public access. Could serve as living alboratory for science-based restoration and management approaches.	Focuses on conserving the working rural, maritime and agricultural landscape within the reserve. Would: mantain pattern of private lands and human uses; protect against spraw development and conversion of resource lands to developed uses; provide measures for protecting uses; provide measures for protecting from development pressures (e.g., through purchase of development rights); and protecting high priority, sensitive natural and cultural sites.	Focuses on conserving the watershed of one Bay tilbutary as an example of outshanding stewardship. Would: protect and restore natural resources along a core riparian area of the tilbutary, enhance water quality throughout the preserve: maintain a mixed pattern of private and public cownership and sustainable land uses; develop a cooperative watershed management strategy with the private sector, local and state government; and create and apply incentives for create and apply incentives for stewardship and best management piractices.

maritime and plantere focuses on maritime and glandscase.  9 landscase and orienters by glandscase and orienters of sites and experiences visites and experiences states, mcluding smaller one sites, museums, festivals, farm stands, fastivals, farm stands, fastivals, farm stands, fastivals, farm stands, fastivals and concept provides one of port of natural and Concept provides in fastivals. The specific to be evaluated in the evaluated in the bit of recept in the fastival scores visit of heritage for interpretation bit as the concept is the evaluated in the fastivals. Concept is broader than existing heritage in the evaluated in the sevation, also broader than existing heritage foarks, historic sites).  In that incorporates circular spects of Bay ultural heritage (parks, historic sites).  In that no units is and themes is and themes sapeaker's nationally raritime driven		Alternative A Today's Programs – No New Initiatives (Status Quo)	Atternative B Enhanced Chesapeake Bay Gateways Network	Alternative C Chesapeake Bay Estuary National Park	Atternative D Chesapeake Bay National Reserve	Alternative E Chesapeake Bay Watershed National Ecological & Cultural Preserve
The dependence of the Chesapacke Bay's national and account to the Chesapacke Bay's national protection that the Chesapacke Bay chesapac	Visitor Experience (See alternatives narrative in Section 4 for more complete description)	Existing NPS units near Bay: Provide a variety of visitor experiences associated with specific themes/resources at three-relatively small historical parks.  Gateways Network: Through 2008, provides a watershed-wide system of multiple sits for experiencing many diverse Bay resources and themes. Also provides technical and financial assistance (matching grants) for improving interpretation and public access at Gateways through 2008 sunser.	Provides permanent watershed-wide system of multiple tites for experiencing wirtually all of the Bay's resources and themes. Develops series of system-wide interpretive products for introducing Bay themes. The products for introducing Bay themes. Extends technical and financial assistance (matching grants) for improving interpretation and public access at Gateways beyond current 2008 sunset. Enhances interpretation of Bay-wide themes and visitor orientation by adding two partnership interpretive centers.	Primary visitor experience focuses on Bay as a natural aqualic System and associated compatible recentional opportunities.  An NPS developed interpretive center would introduce park themes and orient visitors. Group tours, programs, and opportunities for canceing, kayaking, postorunities for canceing, kayaking, popportunities for experiencing park's aquatic environment.	Primary visitor experience focuses on exploring the rural, maritime and agricultural working landscape.  A partnership interpretive center would introduce reserve themes and orient visitors to a range of sites and experiences within the reserve at these sites, including smaller parks, refuges, historic sites, museums, water trails, events, festivals, farm stands, eft.	Primary visitor experience focuses on exploring an entire tributary system and how human uses and stewardship influence the Bay.  A partnership interpretive center would introduce preserve themes and orient visitors to accessible natural areas at key points along the triburary, opportunities for exploring the preserve by cance or kayak, and demonstration sites for exploring about and participating in stewardship practices.
Chesapeake Bay Gateways Network.  Chesapeake Bay today. Conneg is broader carbon to comparable Coals state.  Chesapeake Bay today. Conneg is broader carbon taking advantage of orgoning roles and commitments of mutiple local, state.  I chesapeake Bay today. Conneg is broader cheered in scope and effect than existing heritage commitments of mutiple local, state.  I chesapeake Bay today. Conneg is broader commitment of mutiple local, state.  I commitment of mutiple local, state.  I commitment of mutiple local, state.  I conneg is broader cheered in scope and effect than existing heritage commitment is conservation, also broader unique and non-governmental partners.  I commitment of mutiple local, state.  I conneg is broader cheered in scope and effect than existing heritage for protection of traditional uses and effect than existing heritage conservation; also broader unique and non-governmental partners.  I conneg in the conservation, also broader interpreting individual aspects of Bay region, in that it incorporates strateges for protection of traditional uses and effect than existing heritage for protection of traditional uses and effect than existing heritage for protection of traditional uses and effect than existing heritage for protection of traditional uses and effect than existing institutions conserving or interpreting institutions conserving or interpreting institutions conserving or marking and agricultural heritage foarts, but no units are membres in Gateways.  I conneg in the mark system or programment and thermes is quite different.  I conneg in the mark conserved the mark conneg and effect than existing institutions conserved that the roctored in the mark conserved the mark conneg and effect than existing institution or conserving or the mark conserved them exists the mark of the mark conneg and effect than existing institution or conserving or the mark conserved them exists	National Significance New NPS units must meet national significance criteria See pp. 5 for discussion of criteria and Bay's significance)	Not applicable	The Gateways Network represents the full breadth of the Chesapeake Bay's national softiation of code to the settemely broad inclusion of code Chesapeake Bay resources, interpretive themse and recreational opportunities. In addition, multiple member sites are deemed nationally significant in their own right (NPS units, NNIs, NWRs).	Concept directly illustrates a core aspect of the Bay's national significance, focusing on the Bay as premaie example of an outstanding natural estuarine system. Provides multiple opportunities for waterbased public use and scientific study. Specific areas with high degree of integrity clearly exist in Bay region, but site-specific learly exist in Bay region, but site-specific future.	Concept directly illustrates a core aspect of the Bay's national significance, focusing on the Bay as national significance, focusing the interrelationship of natural and cultural resources. Concept provides numerous opportunities for interpretation and public enjoyment.  Spectific areas with high degree of integrity Clearly exist in Bay region, but site-spectific values would need to be evaluated in the future.	Concept directly illustrates a core aspect of the Bay's national significance, focusing on the Bay as an outstanding example of an ecological system, the human dependency on that system, and its role as a national example and laboratory for sustainable use and conservation. Concept provides numerous opportunities for interpretation and public enjoyment.  Specific areas with high degree of integrity clearly exist in Bay region, but site-specific values would need to be evaluated in the future.
l economic resource.	Suitability  (View MPS units must be suitable for Mew MPS units addition to National Park System, representing a natural or cultural theme or type of recreational resource not already adequately represented in the System or not comparably protected for public enloyment by another land-managing entity.)	Not applicable	Continues and expands existing Creations are expands existing Creations of Grateways Network, Creating advantage of ongoing roles and commitments of multiple local. state, fedral and non-governmental partners managing member sites. Network is unique and not duplicative of any other initiative or program in Bay watershed. No comparable approach within the National Park System to representing the same or similar resources and themes. Some NPS units are members in Gateways. Network, but represent only a narrow geographic scope.	No comparable park concept in the Crespacke Bay today. Concept is broader in stope and effect (size, public accessibility, interpretation, open estuary, anange of resources) than existing designated marine conservation alreas involving aquatic resources (e.g., National Estuarine Research Reserves and some Mational Walline Refuges).  Multin NPS, Biscayne Mational Park (FL) is similar in its focus on aquatic resources, but the nature of the Bay's estuarine environment and themes is quite different.	No comparable concept in the Cheapeake Bay today. Concept is broader in scope and effect than existing heritage areas in Bay region, in that it incorporates strategies for protection of traditional uses and landscape conservation, also broader than existing institutions conserving or interpreting individual aspects of Bay maritime and agricultural heritage (parks, maritime museums, historic sites).  Within or associated with NPS, there are other national reserves (Ebey's Landing National Historical Reserve, WA, Pinelands National Historical Reserve, WA, Pinelands allostrating resources and themes associated with Chesapeake's nationally significant role as maritime driven economic resource.	No fully comparable concept in the Chesapeake Bay totals, in one focused concept and ributary, combines and expands upon elements that are at work in various areas around the Bay watershed, including, watershed management planning, and conservation, and public accessibility, Adds a substantial interpretive element focusing on stewardship.  Within NPS, core theme and resource is not represented as primary purpose of any unit. Other preserves with some physical similarities exist (Timucuan Ecological & Historic Preserve, FL), but also include substantial differences.

	Alternative A Today's Programs – No New Initiatives	Alternative B Enhanced Chesapeake Bay Gateways	Alternative C Chesapeake Bay Estuary National Park	Alternative D Chesapeake Bay National Reserve	Alternative E Chesapeake Bay Watershed National
	(Status Quo)	Network			Ecological & Cultural Preserve
Feasibility (New APS unist must be feasible additions to the National Park System. An area's natural systems and/or historic settings must be of sufficient size and configuration to ensure long-term protection of resources and to	Not applicable	Overall, the Chesapeake Bay Gateways Nework is not feasible as unit of the National Park System, as it constst of 140+ sites many of which are not administered by NPS. Consequently, alternative proposes concept as permanent program of NPS.	Concept is fundamentally feasible to implement. However, specific assessment of feasibility would be dependent upon range of factors associated with any particular geographic location eventually considered for applying the concept.	Concept is fundamentally feasible to implement. However, specific assessment of easibility would be dependent upon range of factors associated with any particular geographic location eventually considered for applying the concept.	Concept is fundamentally feasible to implement. However, specific assessment of feasibility would be dependent upon trange of factors associated with any particular geographic location eventually considered for applying the concept
acrommodate public use it must have potential for efficient administration at a reasonable cost.)		Some individual sites in Gateways Network already are managed as NPS units, others (NHLs, NNLs, proposed interpretive center) might be feasible, depending upon site specific analysis, but none are proposed in this alternative.			
Management Alternatives	Not applicable	Geographic scope of Bay watershed and Chesapeake Bay Gateways Network (6 states and DC) requires direct federal involvement in partnership management	As proposed, concept would involve and require partnership roles, particularly related to management of aquatic resources. Also, depending upon whether	As proposed, concept would involve and require extensive partnerships in most areas of management and implementation. Also, depending upon	As proposed, concept would involve and require extensive partnerships in many areas of management and implementation. Also, depending upon
		Stategies. In safetably exist in Gateways Mexock and is proposed to continue in this enhanced alternative. NPS is best equipped to coordinate watershed-wide	inclaion to which corrept mignit eventually be applied includes existing resource management areas, those managing entities could have key	whether traction to which concept might, whether withing eventually be applied includes existing resource management areas, those managing entities could have key	witering to Concept inight eventually be applied includes existing resource management areas, those managing entities could have key
		integration of diverse natural, cutural and recreational resources and themes in interpretive, public access and conservation mission of Gateways Network.	partnership roles.	parmership roses.	parmersing roles.
Gaps Addressed (See pp. 20-25 for discussion of gaps in Parconcension and intermediation)	Not applicable	Making NPS role in Gateways Network permanent fills significant anticipated future nan when Network authorization	Enhances aquatic resource conservation beyond existing mechanisms.	Enhances recognition, conservation and interpretation of broad cultural resource areas foundational.	Enhances natural resource conservation beyond existing mechanisms within a particular area: enhances interoretation
מסל בסווספו אמוסון שנים וווובו אובשווסנו		expires in 2008.	Contributes to Chesapeake Bay Program commitments on living resource	water dependent communities) that integrate both natural and cultural	and conservation of areas that fully represent both natural and cultural
		Proposed partnership interpretive centers fill identified gap in interpreting and	protection. Interpretive and public access components contribute to commitments	characteristics of the Bay.	characteristics of the Bay.
		orienting visitors to broad Chesapeake Bay themes.	for education and public access.	Contributes to Chesapeake Bay Program commitments on sound land use. Interpretive and outlife acress commonents.	Contributes to Chesapeake Bay Program commitments on sound land use. Interpretive and oublic acress commonents.
		Proposed tie-in with select Bay landscapes contributes to filling gap in interpretation and conservation of working landscapes.		contribute to commitments for education and public access.	contribute to commitments for education and public access.
		Overall Network interpretive and public access initiatives contribute directly to meeting Chesapeake Bay Program commitments in education and public			·
		ACCESS.			

		Alternative A Today's Programs – No New	Vo New	Afternative B Enhanced Chesapeake Bay Gateways	Gateways	Alternative C Chesapeake Bay Estuary National Park	National Park	Afternative D Chesapeake Bay National Reserve	al Reserve	Alternative E Chesapeake Bay Watersh	ed National
		Initiatives (Status Qu	(Or	Network						Ecological & Cultural Preserve	serve
Initial One-Time Costs	sts	Notes	Costs	Notes	Costs	Notes	Costs	Notes	Costs	Notes	Costs
Intepretive Center(s)		Not applicable		Two at \$2,500,000 each. Fixed NPS contribution requiring 1:1 match from partner.	\$5,000,000	One, developed by NPS. Estimated at 10,000 SF exception. Use of existing structure possible, but less likely than in B, D or E.	\$3,000,000 to	One, developed by NPS with partner: requires 11: match. Estimated as 50% of 10,000 SF new construction cost. Use of existing structure possible depending on availability.	\$1,500,000- \$2,000,000	One, developed by NPS with partner, requires 1:1 marth. Estimated as 50% of 10,000 SF new construction cost. Use of existing structure possible depending on availability.	\$1,500,000- \$2,000,000'
Planning and Design <sup>†</sup>		Not applicable			\$750,000		\$450-000- \$600,000		\$225,000-		\$225,000- \$300,000
Direct Land Conservation (easement purchases, fee simple purchases, grants for state PDRs)		Not applicable		Some direct land conservation would occur through Gateways grants program.	Included in NPS Grants line below	Could vary substantially depending upon size and characteristics of park.	if concept is selected, estimate would be prepared at time prepared at time park boundary is determined.	Could vary substantially depending on size and tharacteristics of reserve and conservation strategy developed in management plan.	If concept is selected, selected, be prepared at time reserve boundary is determined.	Could vary substantially depending on size and characteristics of preserve and conservation strategy developed in management plan.	if concept is selected, estimate a would be prepared at time preserve boundary is determined.
Sub-total of Initial One-Time Costs	One-Time Costs	Not applicable			\$5,250,000- \$5,500,000	Does not include land conservation costs	\$3,450,000- \$4,600,000	Does not include land conservation costs	1,725,000-	Does not include land conservation costs	\$1,725,000-
Recurring Annual Costs	stsc	Notes	Costs	Notes	Costs	Notes	Costs	Notes	Costs	Notes	Costs
Operations and Management	Existing Chesapeake Bay Program Office (CBPO)		<b>\$</b> 450,000		\$450,000		\$450,000		\$450,000		\$450,000
	Additional operations and maintenance for implementing alternative		Not applicable	Two NPS staff at each interpretive center and additional staff support at CBPO	\$500,000	Varies by size of park	\$1,000,000- \$3,000,000	Varies by size of park	\$1,000,000- \$2,000,000	Varies by size of park	\$1,000,000- \$2,000,000
	Additional programming	Network-wide service (1:3 ratio to grants); part of \$3million authorization	\$750,000	Network-wide services (1:3 ratio to grants)	\$750,000			<u></u>			
NPS Grants		Gateways grants; other part of \$3million authorization	\$2,250,000	Gateways Grants (watershed-wide), includes conservation assistance	\$2,250,000			Matching grants for enhanding interpretation and conservation within	\$800,000	Matching grants for enhancing interpretation, conservation, sustainable practices within preserve	\$800,000
Sub-total of Recurring Annual Costs <sup>10</sup>	ng Annual Costs <sup>10</sup>		\$3,450,000		\$3,950,000		\$3,250,000		\$3,250,000		\$3,250,000
						•		-		-	

'The National Park Service estimates actual costs with additional 18% for supervision, contingencies and supplementary services such as environmental compliance. The estimates in this chart are intended for comparing alternatives and should not be used for budgetary purposes. More detailed cost estimates will be prepared if a specific alternative is selected.
"Recurring costs, with the exception of grants, would be expected to increase over the lifetime of the park and its facilities due to inflation. More detailed analysis of life cycle costs would be prepared in the future.

#### PUBLIC COMMENTS

The Chesapeake Bay Special Resource Study and Draft Environmental Impact Statement stimulated comments from the public by mail, fax, email and the internet, as well as at the public open houses in summer 2003. In total, there were more than 3000 comments submitted - 52 from agencies and organizations, 935 from public open house comment cards, and 2107 from individual comments via the website, email, mail, and fax. Formal responses to the agencies' comments can be found in Section 8 of this report. Copies of the agency letters are provided in Appendix B; originals can be obtained from the NPS Chesapeake Bay Program Office.

Public comments focused on the five alternatives outlined in the draft report, each of which describe a different way the National Park Service might contribute to the partnership effort to conserve and celebrate the Chesapeake Bay. Specific places that were mentioned as locations where an alternative concept might be applied are listed in Appendix C, though no formal proposals were received.

The draft study and the five alternatives generated comments with several overarching messages and consistent themes. People:

- view the Chesapeake Bay as an overwhelmingly significant place where natural and cultural resources and themes are both paramount;
- are concerned about how the Bay is doing and want to see it restored;
- support the National Park Service having a long-term role in the Chesapeake over 92% of comments supported doing more than just the status quo (alternative A);
- have a strong preference for combining elements of the initial concepts, rather than picking any single concept by itself; no single concept can adequately represent the size and diversity of the Bay.

Public comments expressed overwhelming support for an enhanced National Park Service role in the Bay, though there was no clear consensus on picking one of the single park concepts (alternatives C, D, E) as the sole alternative to pursue. Many people expressed support for each of these alternatives individually, but the majority of comments advocated some combination of approaches, merging two or more action alternatives (alternatives B-E) into a final National Park Service recommendation.

Generally, the most numerous comments support:

- making the National Park Service commitment to the Chesapeake Bay Gateways Network permanent (as in alternative B);
- almost all respondents at open houses said they would visit one or more Gateways Network sites (see www.baygateways.net) and supported the addition of two interpretive centers; and
- establishing a "park unit/NPS role" that encompasses at least one of alternatives C, D or E, but preferably elements of all three.

A number of comments also advocated combining these elements with a Chesapeake Bay National Water Trail linking sites around the Bay. The

comments strongly rejected the status quo, with many people saying more efforts were needed to improve public access to the Bay and to educate the public so that they have a greater appreciation of the entire Bay watershed.

The comments listed below are excerpted as samples of some of the perspectives expressed by individuals and organizations.

"The Chesapeake Bay Gateways Network--alternative B--is the essential building block of a NPS Chesapeake Bay Program contribution. A national trail system on the Chesapeake should be an added alternative. I can easily envision the national trail and alternatives C, D, and E being built into an 'alternative F' in the long run. Please give serious consideration to focusing on the importance of the 'health and stewardship of the bay' as the fundamental theme behind the chosen alternative. Reaching the broadest possible audience with this is critical."

"The Gateways are great, but should be expanded with the other (C, D, and E) alternatives as well. Do it. The Chesapeake is the primordial soup of my land ethic."

"After reviewing these ideas, my main thoughts are as follows: 1) Please make the Gateways Network permanent! These are individual gems; 2) I wholly support celebrating, interpreting, and protecting both the land and water of the Bay. Alternative D would advance the heritage of the Bay's traditional working landscape and go far to ensure its future; 3) Alternative E is fascinating - in combination with alternatives D and C would be an innovation in education and outreach, and a tremendous step in laying the groundwork for the watershed's future."

"Each of these alternatives certainly shows merit. I would think that all are equally worthy of action. Therefore, I would hope that the NPS would consider rolling all of the alternatives into a 'large-scale' initiative incorporating each of the elements into an overall program. This estuary is in my mind the heartland of America and the efforts for instituting a park service unit around this special geographic setting should reflect each of the components listed as alternatives."

"Love the idea of a fixed place to visit and bring friends and relatives. Have visited many National Park sites through the U.S. and love them. I would love their presence in my 'backyard.'"

"While I would pick the Gateways if I could only choose one, it is a good point that the alternatives are not mutually exclusive. They are all good ideas, and I would have no problem with combinations from the various plans. I would only suggest those decisions be made in a framework of what is best for the Bay. An inclusive approach dedicated to reaching as much of the watershed as possible and providing opportunities to appreciate and conserve all the aspects of Bay life, human and wild, commercial and recreational, should be the goal."

"Each of the individual alternatives has merit; however, I don't feel that in isolation they will reflect the history and value of the Chesapeake Bay, nor will they provide for the conservation and preservation of the Bay's resources. Perhaps a combination of the alternatives would create a better representation of all the Bay encompasses, historically, naturally, etc."

"I grew up fishing, crabbing and playing in the Chesapeake Bay and tributaries. This is a very exciting and much needed effort. I have my 'preferred alternative' (C), but I think that any of the 4 action alternatives will bring greater focus and effort toward protecting the natural and cultural resources of the Bay."

"[Alternatives] A and B keep the states involved through the Chesapeake Bay Program. This is necessary to keep local involvement - ideas and impact - at the center of activities to promote and protect the Bay. The legislators of each state, as the elected public policy makers, need to be involved in the Bay's future. It seems alternatives A and B provide all parties, federal, state and local, the opportunity to chart the best course for the Bay's future."

"This alternative (C) should be implemented because it would have a huge impact on the ecology of the Bay. Estuaries not only support birds in their flights from north to south but estuaries also support water habitats for a variety of plant and animal life."

"[Alternative D] is great—I love that it integrates the many facets of the watershed—water and land, environment and economy, history/tradition and the future."

"The Chesapeake Bay is clearly a significant natural and cultural resource. It deserves strong and continuing recognition and interpretation by the NPS in partnership with the states and others."

#### SELECTION OF PREFERRED ALTERNATIVE

#### **Key Findings**

In formulating a preferred alternative, the National Park Service makes findings relative to four key criteria for new units of the National Park System. The final study's findings are described below.

#### National Significance:

The Chesapeake Bay is an outstanding example of a unique set of ecological and cultural elements with long-standing and expansive influence on the history and development of the United States. The Chesapeake is unquestionably nationally significant and a major part of the nation's heritage which the National Park System strives to represent and interpret.

While the Chesapeake can be independently viewed as a significant natural resource, a significant historic and cultural resource, and an area of outstanding recreational opportunities, it can only truly be understood as an interconnected and interdependent mosaic. The Bay's natural resources are the basis of a rich cultural history and multitude of recreational opportunities. The region's cultural history in turn affects the natural environment. The Bay proper is dramatically influenced by its watershed. Many cultural patterns of the upper watershed developed because of connections with the Bay.

Real understanding of the Chesapeake Bay comes by viewing all elements through their context and interrelationships. The Chesapeake is truly a

system where each part's individual importance contributes to the overwhelming significance of the whole.

As President Ronald Reagan wrote in 1984, "the Chesapeake Bay is a national treasure that is worth preserving for its own sake." The Congress reiterated this statement in Public Law 106-457, finding that "the Chesapeake Bay is a national treasure and a resource of world-wide significance."

#### Suitability:

Areas being considered for potential inclusion within the National Park System must meet a suitability criterion—they must represent a natural or cultural theme or type of recreational resource that is not already adequately represented in the National Park System, or is not comparably represented and protected for public enjoyment by another land-managing entity.

In spite of many organized efforts to protect and enhance the Bay, the study finds there are certain clear gaps – not filled by any other entity – that could be filled through National Park Service roles consistent with the agency's mission. As described in Sections 3 and 4 of the Chesapeake Bay Special Resource Study and Environmental Impact Statement, the "action" alternative concepts (alternatives B, C, D & E) presented in the study focus directly on these gaps. These concepts, and the Chesapeake Bay resources they address, were also identified in the study as not already represented within the National Park System. Public and agency comments on the draft study support these findings. Accordingly, alternatives B, C, D & E meet the suitability criterion.

#### Feasibility:

Areas being considered for potential inclusion within the National Park System must also meet a feasibility criterion. An area's natural systems and/or historic settings must be of sufficient size and configuration to ensure long-term protection of resources and to accommodate public use. It must have potential for efficient administration at a reasonable cost.

Among other feasibility factors, this study places a premium on partnerships and support as a key ingredient for each of the alternative concepts.

One concept – alternative B (Enhanced Gateways Network) – already has that support fully in place. Specifically, through the Chesapeake Bay Gateways Network, the National Park Service has assembled a partnership system of 140 parks, refuges, historic sites, museums and trails around the Bay watershed where people can have Chesapeake experiences. This system pulls together federal, state, local and private resources in a coordinated approach to interpreting the Chesapeake. This allows NPS to play a unique role in the overall Bay restoration strategy – coordinating efforts to connect the public with the vast and diverse Chesapeake story. Public understanding and involvement is a key Bay restoration goal. Alternative B – which builds on and enhances the existing Network – is clearly feasible.

The three other action alternatives (alternatives C, D & E) exist at this time only as concepts. Comments submitted during public review of the draft study indicate support at the conceptual level for some combination of these

concepts' elements. However, a specific finding of feasibility depends upon evaluating a range of factors associated with particular site-specific proposals. No detailed, broadly supported site-specific proposals for these concepts yet exist. Thus, these alternatives are not feasible unless and until a viable proposal comes forward.

#### Management Alternatives:

Areas being considered for potential inclusion within the National Park System must be evaluated for whether there are effective alternatives to direct National Park Service management. Such alternatives might include continued management by other entities, assistance from established programs or cooperative management between the National Park Service and other entities.

This study's suitability findings indicate that each of the action alternatives responds to an identified gap in Chesapeake conservation and interpretation. While this alone does not indicate a National Park Service role is necessary, it does have a strong bearing on management alternatives.

More importantly however, this study incorporates an exploration of management alternatives into the fundamentals of the alternative concepts it describes. None of the action alternatives contemplate sole management by the National Park Service. Each of the action alternatives inherently integrates cooperative management among other entities and the National Park Service. These management roles are described in the key elements section of each alternative. The varying roles are woven into the alternative concepts to maximize the efficiencies and effectiveness of each partner and role. Ultimately, this is intended to make each whole concept greater than the sum of its parts. The National Park Service role in each alternative is carefully crafted to fill the gaps not addressed by other entities, and consistent with the National Park Service mission.

#### THE NPS PREFERRED ALTERNATIVE

A final special resource study is required to "identify what alternative or combination of alternatives would in the professional judgment of the Director of the National Park Service be most effective and efficient in protecting significant resources and providing for public enjoyment." This standard guides the identification of a "preferred alternative."

Several factors combine to make the Chesapeake Bay Special Resource Study different from typical "new area studies" – and ultimately shape the most effective and efficient approach for a National Park Service role in the Chesapeake:

- As a natural and cultural resource and source of recreational opportunities, the Chesapeake's scope is immense in significance, size and diversity.
- 2. The region has a wide range and variety of established institutions involved in various aspects of resource conservation, interpretation

<sup>&</sup>quot; Public Law 105-391.

and recreation, including the Chesapeake Bay Program's guidance of a multi-faceted regional strategy for restoring water quality.

- 3. Through an extensive partnership system of multiple sites the Chesapeake Bay Gateways Network – the National Park Service has a unique existing role in interpreting the Chesapeake, enhancing public access, and stimulating involvement in Bay restoration.
- 4. While there appears to be strong interest in the role a unit of the National Park System could play in contributing to Bay conservation and interpretation, there is not yet a site-specific park proposal within the study area.

These factors and the findings above point to a most effective and efficient approach combining elements of several alternatives in two principal outcomes:

## The Chesapeake Bay Gateways Network should be enhanced and made permanent:

The existing partnership system of Chesapeake Bay Gateways represents the most comprehensive approach for visitors to experience the diversity of the Chesapeake Bay. The Gateways Network links Chesapeake sites throughout the watershed, enhancing their interpretation, improving public access to Bay resources, and stimulating citizen involvement in conservation. In addition to scores of sites are twenty designated water trails, extending well over 1100 linear miles – with outstanding potential for an integrated and nationally recognized Chesapeake Bay water trail system.

Though the Gateways Network exists today, under current law the National Park Service – the coordinating agency for the entire Network – would cease its involvement in 2008. This sunset date should be eliminated if the Gateways Network is to continue to function.

The National Park Service plays the core, integrating role in the Gateways Network: drawing together 140 independent sites in 5 states and the District of Columbia; coordinating overall planning for the Network with the states and other partners; providing technical and financial assistance to partner sites; and carrying out a range of Network-wide initiatives. The National Park Service role in the Gateways Network is unique – not duplicated by any other organization. However, it is fully consistent with legislation and precedent for key federal roles in the federal-state Chesapeake Bay watershed partnership.

Continuation of the Gateways Network and the National Park Service role is broadly supported by public and organizational comments – summarized as follows in comments by the Virginia Department of Historic Resources:

With millions of visitors coming to enjoy the Bay watershed each year...a permanent commitment by the nation and NPS to the Gateways Network is instrumental to sound tourism, conservation and stewardship efforts. NPS's direct involvement in partnership with the states and regional and local conservation partners is critical.... The Bay is a vast resource representing several states, many diverse

interests, multiple geographic locations, and a wide range of related sites and site types. The Gateways Network seems to be the most flexible option for providing for full recognition, assistance and interpretation of the vast array of sites that are related to the Bay. Furthermore, it seems the most efficient to implement, and the most fiscally responsible.

The Chesapeake Bay Gateways Network should be a permanent partnership system for experiencing the Chesapeake. For this to occur, alternative B would be implemented in its entirety: the Gateways Network would be designated a permanent program of the National Park System with an ongoing funding commitment; creation of two partnership Chesapeake Bay interpretive/education facilities would be stimulated through two 1:1 matching grants (NPS grant share capped at \$2.5 million each); and the Gateways Network would enhance links to surrounding working landscapes.

Alternative B represents a remarkably efficient and effective approach to advancing public understanding and enjoyment of Chesapeake resources and stimulating resource conservation.

The park/reserve/preserve concepts (or combination of alternatives C, D & E) meet NPS criteria and fill a key gap in protection and public enjoyment of Bay resources:

While the Bay is large and diverse, with many ongoing protection and interpretation efforts (including the Gateways Network), some key gaps in those efforts remain. Those gaps relate to certain types of resources and themes – representative of the Bay – that are encompassed within the scopes of alternatives C, D and/or E.

At some time in the future, a unit of the National Park System encompassing either one or several of these alternative concepts could make a significant contribution to protection and public enjoyment of the Chesapeake Bay. While the alternatives are described in this study as individual concepts, many who commented on the draft study correctly observed that several concepts could be linked together. There are models for this at other locations within the National Park System, where several different sub-units are managed by the National Park Service, or a partner in association with the Park Service, as part of a larger unit. The sub-units typically protect and interpret key under-represented natural and cultural themes of the region. Existing park units neighboring the Bay (Fort McHenry National Monument, Colonial National Historical Park, and George Washington Birthplace, which each represent a narrow spectrum of Bay cultural themes) could be viewed as initial elements of such an approach.

However, there are no detailed, broadly supported site-specific proposals for any of alternatives C, D or E, or a combination thereof, at this time. As noted in the findings above, a finding on the feasibility of a potential future unit is wholly dependent upon site-specific analysis.

No further consideration and evaluation of these concepts as a potential Chesapeake Bay focused unit of the National Park System is necessary unless and until a specific proposal enjoying demonstrated state and local government, Chesapeake Executive Council<sup>12</sup> and public support is advanced. Proposals suitable for future consideration would focus on those concepts (C, D & E) and their core resources, or a combination of those concepts, determined through this study to preliminarily meet National Park Service criteria. Such proposals would clearly articulate how the key elements of the relevant concepts described in this study are met. The National Park Service would ultimately consider and offer a finding on any such proposal relative to new unit criteria – with a particular emphasis on feasibility and management alternatives – and this study's findings and relevant concept descriptions.

<sup>&</sup>lt;sup>12</sup> The Chesapeake Executive Council – which guides the Chesapeake Bay Program – consists of the Governors of Maryland, Pennsylvania and Virginia, Mayor of the District of Columbia, Chair of the Chesapeake Bay Commission and Administrator of the Environmental Protection Agency.

# Section 5: Affected Environment

The National Environmental Policy Act (NEPA) requires that documents such as this special resource study and environmental impact statement include a description of the environment of the area affected by the alternatives under consideration. This description of existing environmental conditions is called the "Affected Environment." It describes the natural, cultural, and socioeconomic environments of the Chesapeake Bay and its watershed in terms of resources that may experience or cause impact or be affected if one or more of the alternatives presented in Section 4 are implemented. A summary of the resources identified as "impact topics" associated with this project follows. An impact topic is defined as the resource discipline likely to be affected by a proposed action (e.g., aquatic resources, terrestrial resources, cultural resources, etc.). These impact topics and this section provide a basis for evaluating the potential effects of each alternative; this is presented in Section 6.

# NATURAL ENVIRONMENT Aquatic Resources

#### Watershed

The Chesapeake Bay watershed is a 64,000-square-mile drainage basin encompassing portions of six northeastern states (Delaware, Maryland, New York, Pennsylvania, Virginia, and West Virginia) and the District of Columbia (see Figure 5-1). A vast number of rivers and tributaries and the region's surface water runoff collect in the Chesapeake. The headwaters of the Susquehanna River, the largest Bay tributary, begin near Cooperstown, New York. The Bay proper is approximately 200 miles long, stretching from the mouth of the Susquehanna at Havre de Grace, Maryland, to Norfolk, Virginia. It varies in width from about 3.4 miles near Aberdeen, Maryland, to 35 miles at its widest point, near the mouth of the Potomac River. Including its tidal tributaries, the Bay has approximately 11,684 miles of shoreline. (USGS, 2002a, b). Although the Bay lies totally within the Atlantic Coastal Plain, the watershed includes parts of the Piedmont and the Appalachian Provinces. The combination of waters from tributaries and the Atlantic Ocean provides a mixture of waters with a broad geochemical range (Grumet, 2000).

# Path Line Path Line

Figure 5-1: The Chesapeake Bay Watershed

#### Streams and Rivers

There are an estimated III,000 miles of perennial and intermittent streams in the watershed (Matuszeski, 2000). There are more than 50 major rivers flowing through this region. Five rivers (Susquehanna, Potomac, Rappahannock, York, and James) provide 90 percent of the Bay's freshwater volume. The largest, the Susquehanna, accounts for fully half of the freshwater discharged into the Chesapeake Bay.

#### Estuarine Environment

The Bay itself is an estuary—a place where fresh river water mixes with the salty Atlantic Ocean currents. It is the largest estuary in the United States and

one of the largest in the world. The sheer volume of freshwater that flows into the Bay makes its salinity, on average, 10 percent less than the water in the nearby Atlantic Ocean. The Bay was formed at the end of the last Ice Age, when melting glaciers caused sea levels to rise worldwide. Its deepest portions trace what in ancient times was the path of the Susquehanna River; its shallower parts were formed when land was flooded by rising ocean waters. Deeper waters are home to many species of fish, shellfish, and, on occasion, visiting ocean fish and aquatic mammals. Vast meadows of submerged aquatic vegetation, great banks of clams and oysters, sizable populations of blue crabs, young fish not ready for the open water, migratory waterfowl, clouds of diatoms, dinoflagellates, and other plankton also reside in the Chesapeake Bay (NPS, 1999; Grumet, 2000).

#### Fish

The fish in the Bay region fall into two categories: resident and migratory. Of the 295 species of fish known to inhabit the Chesapeake Bay region, 32 species are year-round residents of the Bay. Resident fish tend to be smaller than migratory species and often occur in shallow waters, where they feed on a variety of invertebrates. The resident Bay anchovy, for example, is the most abundant fish in the Bay waters and consequently forms a critical link in the food web because it serves as the dietary basis for many other species, including some species of birds and mammals. In the winter, it remains in the deep waters of the Bay, but, in the warmer seasons, it clings to shoreline areas, swimming in schools and feeding on zooplankton. The Bay anchovy spawns at night from April through September in warm areas of the estuary, where the temperature is above 54 degrees Fahrenheit (Chesapeake Bay Program Office, 2002a).

Migratory fish fall into two categories: catadromous or anadromous. Catadromous fish live in freshwater, but travel to the high-salinity ocean waters to spawn. The only catadromous species in the Bay ecosystem is the American eel, or *Anguilla rostrata*, which leaves its habitat in the Bay to spawn in the Sargasso Sea. Anadromous fish (fish whose incubation and juvenile state is in freshwater, maturation state is at sea, and later as adult, migrate into rivers for reproduction) such as the American shad and the blueback herring, travel from the high salinity waters of the lower Bay or Atlantic Ocean to spawn in the Bay watershed's freshwater rivers and streams. Other anadromous fish travel shorter distances to spawn and occupy a narrower range of salinities. For example, white perch journey from the middle Bay, which is not as salty as the ocean, to freshwater areas of the upper Bay and tributaries to spawn (Chesapeake Bay Program Office, 2002a).

#### Shallow Water and Littoral Zones

The shallow water, or littoral zone, is a unique habitat found at the edge of the shoreline. These waters continuously shift with the tides and thus undergo extreme environmental fluctuations throughout the year. In the summer, the waters become very hot with little moderation in temperature. In winter, ice often covers the water, making these zones much cooler than deeper areas. Shallow waters are constantly being affected by climatic change, in the form of wind and storms, which suspend sediments throughout the water column. Spring rains lead to the runoff of sediment and

nutrients from the land, which clouds the shallow waters even more. These heavy rainstorms also constantly change the salinity of the shallow waters.

#### Aquatic Life

A tremendous diversity of aquatic life inhabits shallow water environments. Rich plant communities that grow in the shallow waters, such as submerged aquatic vegetation and tidal marshes, provide key habitats for many invertebrates, fish, and waterfowl in various life stages. Shrimp, killifish, and juveniles of larger fish species use submerged aquatic vegetation, tidal marshes, and shallow shoreline margins as nursery areas and for refuge. Vulnerable shedding blue crabs also find protection in submerged aquatic vegetation beds. Predators (including blue crabs, spot, striped bass, waterfowl, colonial waterbirds, and raptors) forage for food here. Nearly 30 species of waterfowl visit the Bay during the winter (Grumet, 2000). Along the shoreline, fallen trees and limbs also give cover to small aquatic animals. Even unvegetated areas, exposed at low tide, are productive feeding areas. Microscopic plants cycle nutrients and are fed upon by crabs and fish.

#### Wetlands

Only 4 percent (1.6 million acres) of the 64,000-square-mile watershed is wetlands (Chesapeake Bay Program Office, 2002b). Two types of wetlands are present in the watershed: tidal estuarine (flooded by salty or brackish water) and palustrine (freshwater) wetlands. Most of the wetlands in the Bay are tidal. The Bay wetlands provide particularly crucial habitat for fish, shellfish, various waterfowl, shorebirds, wading birds, and several mammals. Striped bass, menhaden, flounder, oysters, and blue crabs are among the most commercially important fish and shellfish that depend on estuarine wetlands.

An important component of the Chesapeake Bay wetland ecosystem is submerged aquatic vegetation (SAV) – vascular plants that grow entirely under water. SAV provides habitat and food for fish, waterfowl, shellfish, and other invertebrates. Sixteen species of SAV are commonly found in the Chesapeake Bay or nearby rivers. Salinity is the primary factor affecting submerged aquatic vegetation distribution. Historically, 200,000 acres of Bay grasses grew along the shoreline; only 38,000 acres remained in 1984. The loss is due primarily to increased turbidity, which prevents light penetration to the plants, thus reducing photosynthesis; sedimentation that covers the plants; and increased nutrients in the water, which increases the algae population and also reduces light penetration (Chesapeake Bay Program Office, 2001a). The primary source of this loss is runoff from agriculture, new development, and industry. Because of restoration and conservation efforts in the Bay and the watershed, the area of SAV had increased to 85,000 acres by 2001 (USEPA, 2002).

#### **Terrestrial Resources**

#### Physiographic Provinces

This region contains distinct, occasionally overlapping environmental areas often called physiographic provinces (Lower Coastal Plain, Upper Coastal Plain, Piedmont, Blue Ridge, Valley and Ridge, and Appalachian Plateau) (see Figure 5-2). The Bay watershed lies within the Coastal Plain and the

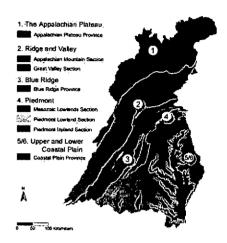
Piedmont Provinces. Each province is a unique and complex environment that both supports and is influenced by living things. The Bay environment consists of deep and shallow open saltwaters and the brackish waters of the lower tidal portions of rivers. Chesapeake Bay waters flow into the Atlantic Ocean near Norfolk at the Bay's southeastern end. This diverse landscape, with its varied topography and surface geology, has profound effects on the abundance and types of ecosystems throughout the watershed (USGS, 2002a).

#### Coastal Plain Province

The Coastal Plain bordering on the Bay consists of beaches, marshes, forests, and grasslands growing on generally sandy or gravelly soils. This area is often divided into the Upper and Lower Coastal Plain. The Lower Coastal Plain is called the tidewater region because the waters coursing along its shore, rise and fall with the tide (see Figure 5-2). Coastal Plain sections on the Bay's eastern and southern shores generally tend to be flat and are drained by salty or brackish waters. Bluffs and low rolling hills drained by brackish or freshwater streams are located on the western shore and in the more interior parts of this region (Grumet, 2000).

Coastal Plain Wildlife, Habitats, and Forest Communities The Coastal Plain consists of beaches, saltwater and brackish marshes, freshwater swamps, and forests. The region straddles an environmental borderland marking the southernmost extent of many northern species and the most northerly limits of many southern plants and animals. Tidewater beaches support distinct communities of shellfish, insects, and migratory birds. Plants that are resistant to salt spray, including salt grass, salt meadow cordgrass, and American holly, provide food and shelter to a wide variety of insects, mammals and birds and stabilize dunes and bluffs above the high tide mark, keeping them from eroding quickly into the Bay. Areas closest to the Bay are also home to low-lying salt marshes, which are flooded twice a day by the tides. Plant communities dominated by salt marsh cordgrass and other species able to withstand extended periods of immersion live in these areas. In contrast, areas of salt marsh that only are covered by water at high tide are dominated by salt meadow cordgrass and other less water-tolerant species. Just inland, common reeds, white perch, common snapping turtles, northern water snakes, great blue herons and other waterfowl, rice rats, and raccoons are among the many plants and animals making their homes in tidewater swamps and other brackish water wetlands (Grumet, 2000).

Further inland, freshwater marshes and swamps are home to bald cypress, red maple, green ash, sweet gum, loblolly pine, poison ivy, giant water bugs, north black racers, bullfrogs, eastern mud turtles, barred owls, wood ducks, marsh rabbits, Virginia opossums, muskrats, river otters, beavers, and many other species. In addition, the Upper Coastal Plain is populated by diverse mixed hardwood and softwood forests. Each community reflects variations in local weather, water, and soil conditions (Grumet, 2000).



Source: GIS lab/Smithsonian Environmental Research Center

Figure 5-2: Physiographic Provinces of the Chesapeake Bay Watershed

#### Piedmont Province

The Piedmont (literally "foot hills") is a region of mixed hardwood forests and softwood barrenlands bordering on swift-running freshwater rivers and streams. Low mountain chains and isolated hills of hard rock, resistant to eroding power of these waters, rise above broad valleys covered by soft clay soils. A low-lying ridge chain, known as the fall line, runs through the region from Conowingo Falls on the Susquehanna River to Baltimore, Washington, and Richmond. The fall line separates the Piedmont uplands from the tidal lowlands of the Coastal Plain. Rapids flowing over this ridgeline mark the uppermost limits of navigation for ships sailing up the region's rivers. These distances vary from less than five miles on the Susquehanna River to well over 100 miles on the James River (Grumet, 2000).

In the Chesapeake Bay watershed, wildlife, fish, and plant life compete for land and water resources with approximately 15 million people. Forests originally covered as much as 95 percent of the Chesapeake Bay watershed. By 1900, though, less than 50 percent of the watershed was forested. Currently, about 41.25 million acres, or about 59 percent of the watershed, are forested (Chesapeake Bay Program Office, 2001b). Population growth and development constantly threaten the watershed's forests (USGS, 2000a).

Piedmont Wildlife, Habitats, and Forest Communities

Species most commonly found in southern softwood forests blend in with plants that flourish in more northerly mixed softwood-hardwood forests. Mountain laurel, ferns, and grasses flourish on Piedmont forest floors. Poison ivy, Virginia creeper, and other epiphytic clinging vines wind their ways around tree trunks that push their roots deep into the Piedmont's clayey soils. Low mountain chains and isolated hills of hard rock resistant to the eroding power of these waters rise above broad valleys covered by these soft clay soils.

White oaks, beeches, hickories, tulip trees, and, until decimated by blight, chestnuts dominate mature mesosere forest communities. Red oaks prosper in northerly parts of the region; black oaks tend to be more common in southern sections. American hornbeam, flowering dogwood, blueberries, shadbush, and maple leaf viburnum live in lower forest canopies. A wide variety of insects, amphibians, reptiles, birds, and mammals also make their homes in these forests (Grumet, 2000).

Chestnut oak, red oak, flowering dogwood, dwarf chinquapin oak, and Virginia pine are the dominant trees in dry xerosere forests. Blackjack oak and, more rarely, arborvitae, are found in extremely dry Piedmont barren lands. Blueberries, mountain laurel, and a variety of shrubs and grasses grow in upland xeric habitats. A relatively small number of animal species adapted to drier and harsher conditions make their homes in this zone (Grumet, 2000).

#### Riparian Forest

Areas of forested land adjacent to a body of water, stream, river, marsh, or shoreline, which form the transition between the aquatic and the terrestrial environment are referred to as riparian forest. The interconnected streams, rivers, wetlands, and their riparian areas serve as a "circulatory system" for

the Chesapeake Bay. Forests are the natural riparian vegetation in the Bay region. Although they comprise only about 5 to 10 percent of the land in the watershed, riparian areas play an extremely important role in maintaining the health of the Bay (Chesapeake Bay Program Office, 2001c). In the Piedmont swamps and streams, silver maple, sycamore, bitternut hickory, swamp white oak, hornbeam, box elder, hackberry, sweet gum, green ash, river birch, and, formerly, the American elm dominate the forests. Pawpaw, poison ivy, wild grape, wild azalea, witch hazel, and spicebush thrive on the forest floors in this zone. In contrast to its other habitats, Piedmont wetlands support some of the largest communities of insects, crustaceans, mollusks, fish, amphibians, reptiles, birds, and mammals in the Chesapeake region (Grumet, 2000).

## Threatened, Endangered, and Rare Species and Natural Communities

There are approximately 40 federally-listed threatened or endangered species within the Chesapeake Bay watershed. These species depend on a variety of habitats, many of which are being lost or degraded from development. The species include the bald eagle, piping plover, bog turtle, loggerhead sea turtle, several tiger beetles, northeastern bulrush, and small whorled pogonia. In addition, there are several hundred state-listed species protected by Maryland, Virginia, Pennsylvania, New Jersey, New York, Delaware, and West Virginia.

The following table (Table 5-1) is a partial list of protected species found in the Chesapeake Bay watershed.

Table 5-1 Partial List of Federally Listed Threatened and Endangered Species in				
the Chesapeake Bay Watersh	ed was a manager	ea Species in		
Scientific Name	Common Name	Status		
Plants				
Aeschynomene virginica	Sensitive joint-vetch	Threatened		
Agalinis acuta	Sandplain gerardia	Endangered		
Amaranthus pumilus	Seabeach amaranth	Threatened		
Helonias bullata	Swamp pink	Threatened		
Isotria medeoloides	Small whorled pogonia	Threatened		
Oxypolis canbyi	Canby's dropwort	Endangered		
Ptilimnium nodosum	Harperella	Endangered		
Schwalbea americana	Chaffseed	Endangered		
Scirpus ancistrochaetus	Northeastern bulrush	Endangered		
Mollusks				
Alasmidonta heterodon	Dwarf wedge mussel	Endangered		
Insects	-	· · · · · · · · · · · · · · · · · · ·		
Cicindela dorsalis dorsalis	Northeastern beach tiger beetle	Threatened		
Neonympha mitchellii	Mitchell's satyr	Endangered		
Nicrophorus americanus	American burying beetle	Endangered		
Fishes				
Acipenser brevirostrum	Shortnose sturgeon	Endangered		
Etheostoma sellare	Maryland darter	Endangered		
Reptiles		<u>_</u>		
Caretta caretta	Atlantic loggerhead turtle	Threatened		
Chelonia mydas	Atlantic green turtle	Threatened		
Clemmys muhlenbergii	Bog turtle	Threatened		

Character and the County of th	sted Threatened and Indeng arbied	
Scientific Name	Common Name	Status
Dermochelys coriacea	Atlantic leatherback turtle	Endangered
Eretmochelys imbricata	Atlantic hawksbill turtle	Endangered
Lepidochelys kempii	Atlantic ridley turtle	Endangered
Birds		
Charadrius melodus	Piping plover	Threatened
Haliaeetus leucocephalus	Bald cagle	Threatened
Numenius borealis	Eskimo curlew	Endangered
Sterna dougallii	Roseate tern	Endangered
Mammals	·	
Myotis sodalis	Indiana bat	Endangered
Sciurus niger cinereus	Delmarva fox squirrel	Endangered

Figure 5–3: Principal NOx Airshed for the Chesapeake Bay

#### **Air Quality**

The airshed for the Chesapeake Bay extends over a much larger area than the watershed. The nitrogen oxide (NOx) airshed covers approximately 420,000 square miles, approximately 6 times the size of the watershed (Figure 5-3). The airshed extends south to South Carolina, west into Indiana, and northwest and north into Ontario and Quebec, respectively.

Nitrogen oxides from air emissions are a major source of nutrients for the Chesapeake Bay (USEPA, 1999). Air quality is affected regionally by fossil-fueled power plants, factories, and motorized vehicles. Local air quality is influenced by emissions from power plants, factories, and vehicles, as well as small engines, agricultural practices, and construction activities. Industrial operations and vehicles are major sources of nitrogen oxides and volatile organic compounds. These react together in sunlight to form ozone, which can be a major pollutant in highly urbanized areas.

Air quality within the watershed boundaries is generally good; however, four areas have been designated as ozone non-attainment areas: metropolitan Washington, D.C.; Baltimore, Maryland; Kent and Queen Anne's counties in Maryland; and Lancaster County, Pennsylvania. The metropolitan Washington D.C. area includes Washington, D.C., the Virginia counties of Arlington, Fairfax, Prince William, Loudoun, and Stafford; the cities of Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park; and the Maryland counties of Charles, Prince George's, Calvert, Montgomery, and Frederick. The Baltimore area includes Baltimore City and the counties of Anne Arundel, Baltimore, Carroll, Harford, and Howard.

#### **CULTURAL ENVIRONMENT**

Cultural resources for the purposes of this Environmental Impact Statement are characterized as historical context, historic properties, archeological resources, and ethnographic resources.

"Historic properties," as defined by the implementing regulations of the National Historic Preservation Act (36 CFR 800), are defined as any prehistoric or historic district, site, building, structure, or object included in, or eligible for inclusion in, the National Register of Historic Places. This term includes artifacts, records, and the remains that are related to and located within such properties, as well as traditional and culturally significant Native American sites and historic landscapes. The term "eligible for inclusion in the National Register" includes both properties formally determined eligible and all other properties that meet National Register listing criteria.

Properties may be eligible for the National Register for contributions at the national, state, or local level. Ordinarily, properties achieving significance within the last 50 years are not considered eligible unless they are integral parts of historic districts or unless they are of exceptional importance; the most common types of properties less than 50 years old listed on the National Register are works of modern architecture or scientific facilities. Additionally, in order for a structure or building to be listed in the National Register, it must possess historic integrity of those features necessary to convey its significance (i.e., location, design, setting, workmanship, materials, feeling, and association - see National Register Bulletin #15, How to Apply the National Register Criteria for Evaluation).

The majority of information found in this section was compiled from a National Park Service publication titled Bay, Plain, and Piedmont: A Landscape History of the Chesapeake Heartland from 1.3 Billion Years Ago to 2000 (Grumet, 2000) and the study team's experience on similar projects in the Chesapeake Bay watershed.

#### **Historical Context**

For untold millennia, humans have lived and died in the Chesapeake Bay region. Today, one of America's densest concentrations of people lives here, side by side with thousands of plant and animal species.

#### Paleo-Indian Origins (16,000-8,000 B.C.)

Neither scientific archaeologists nor native traditionalists have conclusively discovered the identity of the earliest inhabitants of the Chesapeake Bay region. However, some ancestors of modern Native Americans, known as Paleo-Indians, did enter North America across the Bering Sea during a time when many coastal shelves had been exposed by low sea levels (http://www.chesapeakebay.net/info/histz.cfm). Generation after generation, they spread across the continent by gathering wild plant foods and hunting great Pleistocene mammals. Armed with stone projectiles hurled with a throwing stick, or "atlatl," they followed herds of elk, bison, mammoth, and mastodon into the Bay area roughly 11,500 years ago.

The Chesapeake Bay as we know it did not exist during Ice-Age times. Instead, it was part of a wide, flat coastal plain. The often-shifting channels of the ancestral Susquehanna, Potomac, Rappahannock, and James Rivers meandered widely, and the region became a place of shallow swamps, lagoons, and grasslands as the glaciers retreated. As part of this process, sea levels were rising and the current outline of the Bay began to develop about 9,900 years ago. Many plant and animal species were replaced during this environmental change and this very likely affected local human subsistence.

Most archaeologists divide this earliest human occupation of the Chesapeake region into three overlapping phases. Each is noted by distinctive styles of stone projectile points. The Early Paleo-Indian phase, from 11,500 to 10,400 years ago, is marked by Clovis points (named for the New Mexico site where they were first identified). Sites associated with the Middle Paleo-Indian phase, between 10,800 and 10,200 years ago, tend to contain both Clovis and other forms of fluted and unfluted, lance-like points. Dalton points, or small fluted and unfluted, side notched projectiles with deeply curved concave bases, are considered a key diagnostic marker for the Late Paleo-Indian phase, dating from 10,400 to 9,900 years ago.

#### Hunters-Gatherers (8,000 B.C.-A.D. 1000)

Beginning about 10,000 years ago with the start of Holocene climatic conditions, the Chesapeake region became increasingly warmer and drier. Between 5,000 and 3,000 years ago, the climate continued to moderate and the many estuaries of the region gradually widened to form the current outlines of the Bay. Archaeological evidence confirms that local populations began exploiting this new bay and its tributaries to a much greater degree than in the previous period. These changes were significant and altered the way of life across the region. Increasingly larger populations began using new types of tools, site locations, and subsistence patterns - ways better suited to life in the new mixed hardwood forests. This period of cultural adjustment from big-game hunting to mixed-resource use is known as the Archaic period in North American archeology.

Native American peoples apparently prospered in the Chesapeake Bay watershed area, but most especially during the latter phases of the Archaic period. These early peoples resourcefully exploited food sources found in the forests and streams during their semi-nomadic 'seasonal rounds.' Nuts and tubers were gathered and turkey, deer, small mammals, and fish were also harvested for food and clothing (http://www.chesapeakebay.net/info/hist2.cfm). Though winters were always hard, this hunter-gatherer way of life persisted successfully for centuries and by the Late Archaic phase, larger and more stable populations apparently diversified their subsistence base.

The following Woodland period marks the final phases of independent Native American development in the Bay area. In the early Woodland phase, from 2,700 and 2,300 years ago, many new influential technologies were developed in the region. Grit-tempered and cord-marked pottery were introduced from the north, copper beads came in from the northwest, and tubular slate smoking pipes marked the influence of Midwestern peoples. Many of these artifacts are either direct imports or local copies of artifacts

belonging to the Adena culture centered in the Ohio River Valley. During the Middle Woodland phase, dating from 2,300 to 1,000 years ago, there was apparently a significant drop in the numbers and types of diagnostic artifacts, perhaps indicating a drop in local populations

#### Towns and Villages (A.D. 1000-1500)

While it appears that informal agriculture began along the Atlantic seaboard by 1000 B.C., it took until 600 to 900 A.D. before corn, beans, and squash were established as foundation crops across the Chesapeake's Piedmont and Coastal Plain Provinces (http://www.chesapeakebay.net/info/hist2.cfm). In addition, the bow and arrow were introduced approximately 1,000 years ago. Along with the activity surrounding the storage of food supplies against a winter's deprivation, people started to spend part of the year living together in formal villages. Some of these were also palisaded, or fortified, with a defensive boundary of saplings set in the ground in postholes.

In the Coastal Plain, most towns consisted of collections of structures that seem to have been irregularly placed, more 'organic' than 'formal' in layout. Piedmont towns, on the other hand, were more often 'planned' communities, laid out in a circle around an open plaza area, and very similar to the larger towns of the Mississippian cultures of the Midwest and South. These fortifications mark the beginnings of political competition and formal warfare, and indicate the social maturation and economic diversification of local Native American cultures.

These developments took place during the Late Woodland phase, from 1,100 to 500 years ago, and mark major changes over the preceding Middle Woodland times. Foremost, it appears that significant numbers of people were living in the Chesapeake Bay area, but most of these were beginning to congregate into larger villages located along major tributaries at the centers of major resource zones. Native Americans also began to harvest many of the Bay's signature species, including migratory waterfowl, shellfish, and anadromous fish, such as shad and herring.

#### European Colonization (A.D. 1500-1775)

European contact began with Spanish and French explorers in the early and middle 1500s. The English were relative late-comers to the Chesapeake. Starting about 1560, the Spanish adventurers had substantial and repeated altercations with Chesapeake Native Americans. The Spaniards took a young boy to Europe where he became a Catholic and was renamed Don Luis de Velasco. He was returned to his tribe when they established a Jesuit mission, probably on the York River, in 1570. Native Americans exterminated the Jesuits, except for one Spanish boy, who was eventually liberated, but not without the killing or capture of more Native Americans.

The "planting" of a successful Virginia colony came still more than two decades later when Capt. Christopher Newport and his fleet of adventurers sailed under the lee of what they named Cape Henry in April 1607. John Smith was aboard, but confined under accusation of political intrigue. It was only when sealed orders from the Virginia Company were opened upon their arrival, Smith was found and named as one of the ruling council. While it took until June 1607 for them to grudgingly admit him to the council, his

remarkable adventures as explorer, soldier, cartographer and "sometime Governeur" in the New World had begun.

The population around the Bay in 1607 was perhaps 25,000 or 30,000, and there may have been a total of some 100,000 or so spread over the basin's 64,000 square miles (http://www.chesapeakebay.net/info/hist2.cfm).

Native Americans were legitimately concerned about these unwashed Europeans and their great white winged "canoes." The Powhatan confederation of chiefdoms, dominant around the lower Western Shore, already knew these interlopers were a present danger to their way of life. Some archaeologists believe that diseases carried by the Europeans on the earliest visits to the Chesapeake and the Carolinas spread and killed large segments of the Native American population.

In 1607, the English "seated" their plantation at Jamestown, a marshy island some miles up the Chesapeake's third greatest river (behind Susquehanna and Potomac), and the closest one to the sea. They called this tributary "King James, His River." Some feel this island may have been the only land Powhatan would let them have. It was a good choice for the Native Americans, but, for the English, it was a disadvantage with marshy malarial ground and unhealthy brackish water.

The Calverts, wealthy English Roman Catholics, obtained a grant for a colony to be named Maryland from Charles II. George Calvert formed a London Company and, in 1634, planted his settlement near the mouth of the Potomac. This colony, and good relations with neighboring Piscataway tribes, provided a strong human foundation that eventually overcame a massive number of deaths from "the seasoning," and assured a permanent English presence on the Chesapeake.

The first disruptions to this Colonial agrarian economy and the Bay were triggered by political upheaval in Europe and failures in Continental tobacco markets. These events began in the late 17th Century and accelerated in the 18th century. The repercussions, compounded by English taxation of the Colonies, made Americans realize they would have to provide for themselves. Grain, particularly wheat, became an important crop. With grain came a technological innovation that would revolutionize the practice of Chesapeake agriculture, and forever change the face of this continent. It was the iron moldboard plow, which turns the soil rather than just breaking ground. The European ideal of "high farming" was touted by an increasing circulation of magazines and manuals: rectangular fields, straight furrows plowed by draft animals far stronger than men with hoes, and repeated deep tillage of the soil. Tillage was often straight downhill, with gravity assisting the animals' work. Subsequent rains coursed downhill as well.

Land in essentially permanent tillage broke the cycle of reforestation and tore up the natural fabric of the forest floor, a web of fungal, bacterial, and rooted plant species. The land ecosystem became "leaky" and vastly increased levels of nutrients leached from the soils and headed straight for the Bay and its food chain. For a while, it is likely that the Bay's living resources were stimulated, with the network of plants and animals actually "fed" by these inputs. Not being under heavy harvest pressure, fish and shellfish flourished.

Over the next 150 years this continuing excess of nutrients became the greatest pollution problem facing Chesapeake Bay.

Before 1776, only 21 percent of households in Charles County, Maryland, owned plows and just 2 percent of the land had been cleared. After 1776, 73 percent of landholders and tenants owned plows and exposed soils rose to 40% of the county's area. The result was soil erosion on a never-anticipated scale. As land all around the Coastal Plain was deforested and put under the plow, population pressure pushed agriculture up onto the Piedmont and, by the late 1700s, into the Appalachian valleys. The nation was expanding westward, and the Bay region's Native American world, with its stable agrarian economy, had all but disappeared.

The population of European colonists and African slaves around the Maryland Chesapeake Bay area went from 150 in 1640 to 34,000 in 1700. By 1740, it was 100,000, and by the Revolution in 1776, a quarter million. The United States was growing, but heavy mechanical plowing carried from the Coastal Plain onto steep, eroding piedmont soils was a disaster. Above the river fall-lines and in Pennsylvania, where settlement was also spreading west into the Chesapeake Basin from a growing Philadelphia, some farms lost all their topsoil in 25 years.

From the 1750s to the 1770s, ports for ocean going vessels all around the Bay were filled in by eroded sediments and became too shallow for navigation. Mattawoman Creek and the Port Tobacco River on the Potomac, Upper Marlboro on the Patuxent, Elkridge on the Patapsco, and Joppatown north of Baltimore were all lost.

The starvation and diseases of the early Colonial period were gone and, by 1750, because of good nutrition, Marylanders were in stature among the tallest people in the world. Emphasis on the land and agriculture meant a great deal of domestic meat was available and the pressure for seafood harvesting was actually reduced by 1750.

#### Independence and Expansion (A.D. 1776-1825)

The conclusion of the War for Independence between Great Britain and the United States significantly altered peoples' lives throughout the Chesapeake Bay. Although opinions about the war were divided, all people in the region suffered from shortages caused by the British blockade begun in 1776. However, the response to this blockade led to the development of many new types of sailing vessels and practices such as 'privateering' or officially sanctioned piracy. The Chesapeake Bay region, even today, maintains a rich naval history and shipbuilding and repair industry.

By 1812, St. Michaels was home to six shipyards and the birthplace of the famous, sleek Baltimore clippers. The clippers came into their own during the War of 1812 by skillfully evading the British blockade and roaming the Atlantic as privateers. They would not, however, prevent the burning of Norfolk and Washington, D.C., and the bombardment of Fort McHenry near Baltimore, an event that inspired Francis Scott Key to write "The Star-Spangled Banner."

The region's population grew from 700,000 in 1775 to more than 1.3 million by 1820 and commercial seaport towns like Annapolis, Norfolk, and Chestertown prospered as never before, and river communities like Alexandria and Petersburg attracted large numbers of French immigrants fleeing revolution and revolt in Europe. Free and enslaved African Americans, many of whom entered the nation from ships docking at Bay ports, made up a large percentage of the Bay's population, in the cities and on farms. Baltimore was home to the second-largest group of free blacks in the U.S. and many participated in the Bay's economy as oystermen, sailors, and tradespeople. In contrast, Native American populations were mostly limited to tiny rural enclaves in unwanted swamplands and pine barrens, and generally declined in numbers due to poverty and disease. Fewer than 500 Native Americans likely remained in the region by 1820.

#### Industry and Urbanism (A.D. 1826-1950)

The Chesapeake Bay region split into a free labor market in the north and a slave labor economy farther south. Waterways in the Bay region were used by slaves attempting escapes to freedom along the Underground Railroad. The region was devastated by the violence of the Civil war and many of the undisturbed landscapes were changed forever. Every level of government built fortifications, expanded and modernized navy yards, raised armies and established elaborate logistics networks.

In the latter part of the 19<sup>th</sup> century, industrial development continued on, while the Bay remained the source of industries centered on the extraction of natural resources. Over-extraction by commercial fisheries in the late nineteenth century led to the creation of fish hatcheries and limitations on extraction.

The region's population doubled from 2.5 million in 1880, to 5 million by 1930. Many of these people settled in established urban centers such as Baltimore, Washington, Richmond, and Norfolk. Important technological innovations fueled this massive rise in population. First, innovators increased the efficiency of earlier technologies based on wind, water, wood, and coal. Gas engines and electric motors replaced wind and other traditional power sources by the 1930s. Powered by steam boilers at the beginning of the period, ships, tractors, and a host of other contraptions and conveyances were propelled by internal combustion engines running on gasoline and diesel fuel at its end. Culturally, the heritage of centuries of slave-based economy led to 20th century issues of segregation and racial violence in the region, and ultimately to pioneering efforts in the modern Civil Rights Movement.

#### Post 1950 and Bay Restoration

Despite increasing environmental awareness and concern, the overharvesting of the Bay resources threatened economically and ecologically important fish, shellfish, and wildfowl. With the passing of the Clean Water Act of 1972 and the establishment of the Chesapeake Bay Program in 1983, efforts to protect and restore the region's environment took shape. However, the growing population and increased strain on the natural environment have continued to affect the Bay.

#### **Archeological Resources**

#### The Chesapeake Bay

From the mysterious shipwreck lying off the tip of Tangier Island (possibly dating from the 16th century) to the Coast Guard cutter *Cuyahoga* that sank after slamming into a freighter in 1978, more than 1,800 different vessels have met their end in the Bay's waters (http://www.chesapeakebay.net/info/shipwrck.cfm).

Certain areas in the Bay are known for their treacherous shoals or exposure to dangerous storms. The area at the mouth of the Bay between Capes Henry and Charles is particularly infamous for its shifting sand bars: it is so well known, in fact, that it has earned a proper name, the Middle Ground.

During wars, calamities of battle heightened the usual hazards of ship travel. Many of the shipwrecks in the Bay were casualties of the Revolutionary War, the War of 1812, and the Civil War. Direct hits from cannons, explosives and torpedoes brought down many of the ships, but fires and collisions also played a role.

By the latter part of the 1800s, steamboats became a popular means of traveling around the Bay. These boats were vulnerable to the whims of hurricanes or nor'easter storms, especially if caught in the open Bay with no cover. In October 1878, a steamer on the Potomac Transportation Line named *Express* was working her way north in the main Bay channel when a storm struck with gale force winds. Unable to make safe harbor and with anchor chains snapped, the steamer felt the full brunt of the storm's swell. *Express* capsized, forcing her passengers to cling to bits of floating debris to save their lives. Lifeboats from another steamer driven aground that night rescued many of the victims, but 16 of the 31 on board lost their lives.

Marine archaeologists use whatever records may be available, including old news reports, to help locate wrecks of possible historic interest. The Calvert Marine Museum sponsored excavation of the remains of a ship in the Patuxent River known as the "Turtle Shell Wreck." The excavation team removed the sediment from the river bottom and found the well-preserved wreck and a variety of artifacts 4.5 feet below the surface. Information retrieved from the river bottom confirmed that the ship had belonged to the Chesapeake Flotilla, which was mobilized by Commander Joshua Barney against the British during the War of 1812.

Because the Chesapeake Bay is actually a drowned river valley, a significant portion of what is currently underwater was originally dry land. Many prehistoric archaeological sites likely remain intact along the bottom of the Bay, and along ancient river terraces. Underwater archaeology has only recently begun to assess these hidden resources with new recovery techniques and predictive locational models. In fact, the absence of so many early sites would be accounted for by the fact that archaeologists have been looking in the wrong place.

#### The Chesapeake Plain

A wide variety of archeological resources, however, nevertheless remains on dry land, and most especially on the broad coastal plain surrounding the Bay. As these lands were most often occupied by sedentary agriculturists, and given the fact that these people tended to aggregate into larger settlements with more material remains, the Tidewater areas of the Chesapeake are likely the richest source of archaeological resources. Unfortunately, these resources are also in the closest proximity to modern populations and the forces of development, and they remain most at risk in the region.

Scientists estimate there are at least 100,000 archeological sites scattered around the Bay with only a small percentage documented. Most are susceptible to a variety of destructive factors, both natural and manmade, which imperil their existence. With development consuming land around the Bay at a rapid pace, undocumented sites may be bulldozed before their valuable information comes to light. When farmers plow their fields, they can inadvertently destroy artifacts from a Native American tribe long gone. As sea level rises, as it has for many thousands of years, shoreline erosion will continue to destroy many sites. Minimal till practices limit the likelihood of artifact dislocation, while shoreline stabilization projects help protect sites from wave erosion.

Recorded history of the Bay area Native Americans began just prior to 1600 A.D. with the records kept by the newly-arrived European settlers. John Smith, who explored the Bay in 1608, found primarily Algonquian-speaking Native Americans inhabiting the shores. At the north end of the Bay lived the Susquehannocks, members of the feared Iroquois nation. Many distinct tribes with their own "wiroance," or chief, lived around the Bay, but they often grouped into large confederations. The Powhatan Confederation in Virginia, is named for its leader (Pocohantas' father), and was one of the most powerful of the time. Despite their strength and savvy, however, the Native American Bay population dropped catastrophically after the settlers' arrival due to murder, European diseases and migration.

#### The Chesapeake Piedmont

The archaeological resources of the Piedmont areas of the Chesapeake Bay region are less densely-packed than the low lying Coastal Plain, due to the less intensive utilization of these lands over the long haul of prehistory. However, because of the increased slopes in these areas, more damage is expected to the extant archaeological record.

Many of the prehistoric archaeological resources of the Piedmont region pertain to the earliest phases of human occupation, when the subsistence base for these people included wide ranging areas for resource collection and extraction activities. Quarries, hunting camps, and trade routes to other areas outside the region all potentially lie within the Bay's uplands. Many of these sites are widely dispersed, reflecting a generally low prehistoric settlement density. However, with the coming of European settlements, many of these areas are likely to contain a variety of mining, milling, or military sites, in addition to myriad homesteads that have been lost to time.

In sum, many of the Piedmont archaeological resources are crucial to our understanding of the numerous transport and trade activities of the Bay's people, historic and prehistoric, as they knitted the Chesapeake watershed into an ever-growing and truly continental economy with increasing ties to the Midwest and beyond.

#### **Historic Structures/Sites**

Three main periods can be recognized for the historic structures and sites located in the Chesapeake Bay region: Colonial, Industrial, and Modern. Each of these periods has ample examples scattered across the several states that make up the watershed. The National Register of Historic Places contains detailed records on literally hundreds of properties within the area of consideration, and scores more remain either eligible or potentially eligible for listing on the register. In addition, the Chesapeake Bay area contains a significant number of National Historic Landmarks.

Colonial period structures and sites display the character of the early development of the United States. Numerous examples may be found in the area, ranging from large Historic Districts, such as in Annapolis (ca. 1760s), to private homes, such as Montpelier (ca. 1745) in Prince George's County. Still scattered around the Eastern and Western Shores are several other prime examples of Georgian mansions, formal gardens and grounds, and architectural gems from the late Colonial/early Republic era.

Industrial period structures in the Bay region illustrate many of the important locations in the nation's industrial history, including the B&O Railroad (ca. 1827), the C&O canal (ca. 1815), and the smelting stacks at Principio, Maryland (ca. 1820). Still other locations mark the rise in economic importance of the region, and its major industries located in urban centers, such as Baltimore and Richmond. Similarly, a wide variety of historic houses pertaining to this period are located around the Bay, from palatial estates to humble workers' homes. In many ways, the historic structures and sites of this period are some of the Chesapeake Bay's richest resources.

Modern period architecture has its place in the Chesapeake Bay's cultural heritage as well. Many architects and planners developed new and different approaches in the Bay region. From one of the first planned communities, Greenbelt, Maryland, to one of the first enclosed shopping malls such as Wheaton Plaza, many 'modern' individuals set about modifying the Chesapeake landscape.

In sum, the Chesapeake Bay region is endowed with a wide array of historic structures and sites, and the efforts to identify and protect these invaluable resources continue today.

#### **Ethnographic Resources**

Three main categories of ethnographic resources can be recognized in the Chesapeake Bay region: point-specific, regional, and seasonal. Each of these types of resources relates to different people (e.g., Native Americans, ethnic enclaves, traditional watermen), and at different times (e.g., mythical, prehistoric, historic), but they remain important aspects of our shared cultural heritage.

Point-specific ethnographic resources are usually single locations of specific importance to an identifiable group of people or routes used by escaping slaves along the Underground Railroad. Included in this category would be sacred sites, such as traditional burial grounds, Indian spiritual locations, or 'lookout points.' Many of these types of ethnographic resources are identifiable from extant features (i.e., graves), but some may require extensive consultation and local research to locate and record these properties.

Regional ethnographic resources often include wide-spread areas for resource acquisition and/or transport, and include rock quarries, Indian trails and traditional hunting or fishing territories. In many cases, these resources may be claimed by different and competing groups of people, but nevertheless, these remain important cultural resources to the Bay's history.

Seasonal ethnographic resources primarily include areas traditionally used for collecting seasonally-available resources, such as anadromous fish runs, deer hunting grounds, or ripening fruits and flowering plants. While arguably the most difficult to identify and protect, to many Native Americans, these resources define their traditional existence.

#### SOCIOECONOMIC ENVIRONMENT

#### Land Use (including Jurisdictional Boundaries)

Land uses throughout the Chesapeake Bay area vary from highly agrarian to highly developed, particularly in the metropolitan areas of Washington DC, Baltimore, and Hampton Roads. According to the Multi-Resolution Land Characteristic Consortium, only 9.3% of the land area in the Chesapeake Bay watershed is intensely developed, with 15.2% and 75.5% with commercial development or low intensity development respectively. Land cover across the large watershed area has the following breakdown: 3.6% developed, 28.5% agriculture, 60.1% forested; 4.3% water, 2.6% wetland, and 0.9% barren.

The Chesapeake Bay watershed includes the states of Virginia, Maryland, Pennsylvania, West Virginia, New York, and Delaware, and the District of Columbia, as shown in Figure 5-4. In 1983 and 1987, the states of Virginia, Chesapeake Bay Commission, and the U.S. Environmental Protection Agency (representing the Federal Government) signed historic agreements that established the Chesapeake Bay Program partnership to protect and restore the Chesapeake Bay's ecosystem. The Chesapeake Bay Program is a unique regional partnership that directs and conducts the restoration of the



Figure 5-4: The Chesapeake Bay watershed includes the states of Virginia, Maryland, Pennsylvania, West Virginia, New York, Delaware, and the District of Columbia.

Chesapeake Bay. Since its inception in 1983, this organization's highest priority has been the restoration of the Bay's living resources (e.g., finfish, shellfish, Bay grasses, and other aquatic life and wildlife). Improvements include fisheries and habitat restoration, recovery of Bay grasses, nutrient and toxic reduction, and significant advances in estuarine science.

Considered a national and international model for estuarine research and restoration programs, the Chesapeake Bay Program is a partnership led by the Chesapeake Executive Council. The members of the Executive Council are the governors of Maryland, Virginia, and Pennsylvania; the mayor of the District of Columbia; the administrator of the U.S. Environmental Protection Agency; and the chair of the Chesapeake Bay Commission. The Executive Council meets annually to establish the policy direction for the Program.

The Chesapeake Bay Agreement of 1987, created by the Executive Council, set a goal to reduce the nitrogen and phosphorous entering the Bay by 40 percent by 2000. In 1992, the Bay Program partners agreed to continue the 40 percent reduction goal beyond 2000, as well as to target nutrients at their source, upstream in the Bay's tributaries. As a result, Pennsylvania, Maryland, Virginia, and the District of Columbia began developing tributary strategies to achieve nutrient reduction targets.

On June 28, 2000, the Chesapeake Bay Program partners signed the new *Chesapeake 2000* Agreement, which guides the next decade of restoration and protection efforts throughout the Bay watershed. The agreement commits to protecting and restoring living resources, vital habitats, and water quality of the Bay and its watershed.

#### Population

In 1970, the Bay watershed's population was 11,342,157; by 2000, that figure had grown to 15,710,840, an increase of 38 percent (USEPA, 2002). By 2020, it is expected that nearly 18 million people will live in the region. Table 5-2 shows the population within the watershed from each state, as well as projected population up to the year 2020. In order to accommodate these new residents, more homes will be built. If the current development pattern holds, many of these new houses will be located farther away from existing infrastructure, such as schools, businesses, and wastewater treatment facilities. From the 1970s through 2000, the number of households in the basin increased 17.5 percent (from 4.5 to 5.3 million). Household numbers have increased at a faster rate than the population due to a reduction in household size between 1980 and 1990 (Chesapeake Bay Program Office, 2002c).

Table 5 Populat Chesap	eke Day ( Sake Day (	atesiand (? Drainace	rojecilon Sesin	for Porti	സൂരി ടിള	गी) बीह्या 	
				opulation			
State	1990	1995	2000	2005	2010	2015	. 2020
DC	606,900	554,255	536,750	547,375	576,924	607,211	636,380
DE	68,283	76,179	82,845	88,027	92,321	95,962	99,178
MD	4,731,408	4,987,703	5,256,268	5,485,176	5,675,036	5,867,451	
NY	659,981	655,187	665,129	669,472	672,319	675,166	
PA	3,277,323	3,386,069	3,433,056	3,485,046	3,537,020	3,568,973	3,600,916
VA	4,749,928	5,128,609	5,415,573	5,672,734	5,929,948	6,193,662	6,457,412
WV	180,828	196,661	204,620	215,318		234,343	242,188
TOTAL	14,274,651	14,984,663	15,594,241	16,163,148	16,708,823	17,242,768	17,766,630

Source: Chesapeake Bay Program Office, 2002c

In Maryland, the average lot size per household has increased (Chesapeake Bay Program Office, 2002c). An increase in household numbers coupled with an increase in lot size results in land being consumed for development at a faster rate than the population increase. In Maryland, population increased 35 percent between 1970 and 2000. Between 1973 and 2000, land consumed for residential development increased 66 percent.

A national study, Weighing Sprawl Factors in Large U.S. Cities by Numbers USA provides a consistent means of quantifying the role of population growth in sprawl. According to U.S. Census data, increased per capita land consumption was associated with about 55 percent of the sprawl in a given watershed, and population growth was associated with about 45 percent of the sprawl. There is, however, a great variation among the different "Urbanized Areas" of the Chesapeake Bay watershed (Sprawl City, 2003). An "Urbanized Area" is defined by the U.S. Census Bureau as a contiguous developed land of the central city and its suburbs. Table 5-3, derived from this study, shows nine urbanized areas in the Bay watershed and the sprawl in terms of land area as it relates to population growth and growth in per capita land consumption.

Table 5- 3 Urban Sprawl in the (	dbasesselse Perul	MacConstract)	
Urbanized Areas	Sprawl in Square Miles from 1970-1990	Percent of Total Sprawl related to Population Growth	Percent of Total Sprawl related to Growth in per Capita Land Consumption
Baltimore, MD	. 282.9	28%	72%
Hagerstown MD-PA- WV	4.8	47%	53%
Harrisburg, PA	71.4	30%	70%
Lynchburg, VA	65.7	32%	68%
Norfolk- Virginia Beach, VA'	221.4	85%	15%
Petersburg, VA	24.4	6%	94%
Richmond, VA	158.1	47%	53%
Scranton- Wilkes-Barre, PA'	20.4	0%	100%
Washington, DC-MD, VA <sup>3</sup>	450.1	47%	53%
Totals	1299.2	45%	55%

Source: http://www.sprawlcity.org/studyVA/chesapeake.pdf

The Chesapeake Bay Watershed is divided into eight smaller watersheds. These include the Susquehanna, Patuxent River, the Eastern Shore, the Rappahannock, Maryland Western Shore, James, York, and Potomac River. The upper section of the Bay includes the Susquehanna and Maryland Western Shore Watersheds. The areas in these watersheds located along the Chesapeake Bay are industrial and commercial, such as the city of Annapolis, Baltimore, and Havre de Grace, Maryland. However, the southern portion of the Maryland Western Shore Watershed consists of forestland. Directly along the Bay, these areas have well-developed infrastructure of roads and are heavily populated (Chesapeake Bay Program Office, 2002e). This area showed an increase in population from 1990 to 2000, and projections anticipate a continual increase in population through the year 2020 (Chesapeake Bay Program Office, 2002e).

The middle section of the Bay consists of the Eastern Shore, Patuxent River, and Potomac River Watersheds. The areas located along the Chesapeake Bay within these watersheds consist mainly of forest and agricultural land. Still, areas highly developed with residential and commercial uses exist sporadically along the Chesapeake Bay (Chesapeake Bay Program Office, 2002e). These areas have a well developed infrastructure of roads. Populations, along the Bay, within these watersheds are denser than in other areas. An increase in population from 1990 to 2000 has occurred and projections anticipate a continual increase in population through the year 2020 (Chesapeake Bay Program Office, 2002e). This is especially seen in Prince George's, Anne Arundel, and Montgomery Counties, Maryland.

The lower section of the Chesapeake Bay includes the York, Rappahannock, and the James Watersheds. The area in these watersheds is mostly

Includes Hampton, Newport News, Norfolk, Portsmouth, Suffolk, and Virginia Beach.

<sup>&</sup>lt;sup>1</sup> Prior to 1980, Scranton and Wilkes-Barre were separate Urbanized Areas.

<sup>&</sup>lt;sup>3</sup> Includes District of Columbia, Maryland and Virginia Suburbs and Arlington CDP (Census Designated Place).

<sup>\*</sup>Data range covers 1980 to 1990

agricultural and forested, with a little residential and commercial development interspersed. Populations in these areas are lower than in other areas of the Bay (Chesapeake Bay Program Office, 2002e). There was an increase in population from 1990 to 2000, and it is anticipated that there will be a continual increase in population through the year 2020 (Chesapeake Bay Program Office, 2002e). The area along the Bay is not anticipated to have a well-developed infrastructure of roads. The exception is seen in and around Norfolk, where there is a large concentration of development, population, and infrastructure (Chesapeake Bay Program Office, 2002e).

#### **Economy**

The economic mainstays of the Chesapeake Bay region since the late 1800s have been ports with their import and export, the seafood industry, agriculture, tourism, the military, and shipbuilding and repair (Chesapeake Bay Program Office, 2002d). Major ports in the Chesapeake Bay include the City of Baltimore and the City of Norfolk, transporting container cargo and products such as coal, grain, tobacco, cocoa beans, and rubber.

The seafood industry remains a major factor in the economic life of the Chesapeake Bay. The long-term outlook for the seafood industry is in question however, as over-fishing and pollution of the Bay and rivers have caused a decrease in marine life populations and a destruction of habitat. The Chesapeake Bay is the largest producer of crabs in the United States. More than one third of the blue crab harvest in the United States comes from the Bay (Chesapeake Bay Program Office, 2001b).

Agriculture plays an important part in the Chesapeake Bay Watershed. For example, in Virginia, statistics show that, over the past 40 years, farm production has increased 63 percent, while agricultural land use decreased 47 percent and labor decreased by 89 percent. Production of broiler chickens is the state's leading agricultural commodity, followed by milk, cattle, turkeys, tobacco, greenhouse and nursery plants, soybeans, eggs, winter wheat, and corn. Cotton is making a comeback with the new demand for natural fibers, and, in 1996, a new record was set for cotton production at 160,000 bales.

Tourism continues to play a key role in the economy of the Chesapeake Bay region. For instance, Maryland tourism reports show that visitors to the state in 2001 spent almost 7.7 billion dollars on goods and services, generated 646 million dollars in tax revenue, and indirectly provided more than 103,000 jobs. In Virginia, 275 historic attractions host more than 6.5 million visitors annually, with another 25 million annual visits to National Park Service areas.

The Chesapeake Bay economy is greatly influenced by a large military presence. A number of military bases border the bay or its tributaries. For example, at the mouth of the Bay, the Norfolk Naval Base contributes significantly to the economy in the tidewater area. Other bases on the Chesapeake Bay contribute to the local economies. They include but are not limited to Aberdeen Proving Grounds on the northern end of the Bay and Langley Airforce Base near the southern end. Nearly a third of the region's workers earn a paycheck from the Department of Defense or a defense contractor. Norfolk has the world's largest Navy base, and Portsmouth is

home to the world's biggest ship-repair yard (Chesapeake Bay Program Office, 2002d).

#### **Transportation**

Only two bridges truly cross the Chesapeake Bay: the Chesapeake Bay Bridge-Tunnel and the William Preston Lane Jr. Memorial Bridge (commonly referred to as the Chesapeake Bay Bridge). The Chesapeake Bay Bridge-Tunnel crosses the mouth of the Chesapeake Bay and connects the City of Virginia Beach to Cape Charles in North Hampton County on the Virginia Eastern Shore. It is 17.6 miles long from shore to shore, crossing what is essentially an ocean strait. Including land approach highways, the overall facility is 23 miles long, and it carries highway traffic on US-13, the major arterial highway serving the corridor between Norfolk, Virginia, and Wilmington, Delaware (Kozel, 2002)

The Chesapeake Bay Bridge, officially the William Preston Lane, Jr., Memorial Bridge, crosses the Chesapeake Bay near Annapolis as part of US-50/US-301. The bridge's dual spans connect Maryland's Eastern Shore recreational and ocean regions to the metropolitan areas of Baltimore, Annapolis, and Washington, D.C. The bridge also forms part of an alternative route from the Delaware Memorial Bridge to the nation's capital (Kozel, 2002). The 4.3-mile Bay Bridge is a prominent and important element of the State of Maryland's transportation infrastructure. Carrying more than 23 million vehicles a year, the bridge consists of two separate spans with roadways running 186 feet above the water. The original span was built in 1952 and provides a two-lane roadway for eastbound traffic. The parallel structure opened in 1973 and has three lanes for westbound travelers.

The Bay's ports and waterways are critical to the world's commerce. Approximately 90 million tons of imports and exports pass through the major ports of Baltimore and Hampton Roads each year (The Mariner's Museum, 2002).

#### Parks and Recreation

There are many parks and recreation areas in the Chesapeake Bay watershed area. The Chesapeake Bay Gateways Network, a partnership system of sites, land trails, and water trails, around the Chesapeake Bay watershed, represents a broad cross-section of Bay area parks. The Gateways Network includes more than 140 parks, refuges, historic ports, museums, and trails. More specifically, it includes 21 state parks, 8 units of the National Park System, 5 national wildlife refuges, 18 museums, an Indian reservation, 17 water trails, and a number of other sites (Chesapeake Bay Gateways Network, 2002). In addition to the Chesapeake Bay Gateways Network, there are other local parks and over 500 public access sites which are catalogued through the *Public Access Guide-Chesapeake Bay*, Susquehanna River, & Tidal tributaries (http://www.chesapeakebay.net/visit.htm).

#### Visitor Use

The study area is a destination for local, regional, and out-of-state visitors. While tourism and visitor use statistics are often misleading due to double-counting and the undifferentiated economic impacts of local visitors versus those from out-of town, it is important to understand the magnitude of visitation throughout the area and at specific sites. Statewide tourism statistics are not available due to the difficulty in gathering such data. With a variety of destinations serving many different populations, the District of Columbia, Maryland and Virginia all have a wide variety of visitor attractions.

From a regional perspective, Table 5-4 shows 2002 visitation statistics for National Park Service sites in each state in the Chesapeake Bay watershed as well as the increase or decrease in visitation from 2001. The District of Columbia, Virginia, and Pennsylvania rank in the top five states for national park unit visitation.

The Chesapeake Bay region has many historic and cultural resources that attract local, regional and national visitors. Table 5-5 outlines several major attractions by urban area and their annual visitation statistics. It is evident that the region is a hub for a variety of tourist activities.

Table 52) Visi is to National Park W	ත්ප <b>by S</b> සල කර	egnadDmenseq	from 2001
to 2002		Age Control	
	Visits 2002	Visits 2001	Percent Change
District of Columbia	24.4 Million	28.8 Million	-15.4 %
Virginia	25.0 Million	24.6 Million	1.6%
New York	15.7 Million	16.6 Million	-5.4 %
Pennsylvania	8.3 Million	8.1 Million	2.8%
Maryland	3.3 Million	3.4 Million	-3.6%
West Virginia	1.9 Million	2.1 Million	-7.7%
Delaware <sup>a</sup>	0	0	0

Validades Validades (Major Amagic	ons by Giesapeake Bay Urban	Airea
Metro Area	Attraction	Visits per year
District of Columbia	Lincoln Memorial The White House	3.55 Million 178,000
Baltimore, Maryland	The National Aquarium	1.6 Million
Hampton Roads, Virginia	Virginia Air & Space Center	250,000
Annapolis, Maryland	Maryland State House/Capitol Visitor Center United States Naval Academy	170,000 1.5 Million

The visitation rates at several different types and sizes of resources within the Chesapeake Bay Gateways Network serve as a proxy for the tourist activity at state parks, museums, and historic sites. The annual visitation rates, as illustrated in Table 5-6, vary widely.

<sup>&</sup>lt;sup>13</sup> Delaware does not have any National Park System units.

Table 5-6 September Other Chesques	eko Ben Geneways Sites	- B
Gateways Site	Location	Visits per year
Gunpowder Falls State Park	Kingsville, Maryland	543,000
First Landing State Park	Norfolk, Virginia	ı Million
Blackwater NWR	Cambridge, Maryland	120,000
Chesapeake Bay Maritime Museum	St. Michaels, Maryland	95,000
Fort McHenry NMHS	Baltimore, Maryland	673,000
Colonial NHP	Yorktown/Jamestown, Virginia	3.3 Million

### Section 6: **Environmental Consequences**

#### INTRODUCTION

The National Environmental Policy Act requires that environmental impact statements describe the potential environmental consequences of proposed federal actions and alternatives. In this case, the "proposed federal action" would be the adoption of one of the alternatives described in this Special Resource Study for the Chesapeake Bay watershed. This chapter describes the potential impacts associated with the five alternatives. By assessing the environmental consequences of all the alternatives on an equivalent basis, the NPS and other decision-makers can decide which alternative creates the most desirable combination of beneficial results with the fewest adverse effects on the environment.

The alternatives in this SRS provide broad management directions. The environmental consequences associated with the proposed actions are analyzed on a qualitative level because of the general nature of each proposed action. Thus, this environmental impact statement should be considered a programmatic analysis. If any action is eventually implemented, the NPS, in accordance with the National Environmental Policy Act, would conduct additional environmental analyses with appropriate documentation before implementing site-specific actions. The impacts for each alternative are briefly summarized in Table 6-1 at the end of this section.

#### METHODOLOGY FOR ASSESSING IMPACTS

Potential impacts are described in terms of type (adverse or beneficial), intensity (negligible, minor, moderate, or major), duration (short-term or long-term), context (site-specific, local, bay-wide, or watershed-wide) and direct versus indirect. Clarification for each of these concepts is provided below.

#### Impact Type

For each impact topic, the effects of the proposed action would be either adverse or beneficial. In some cases, the actions would result in both adverse and beneficial impacts for the same impact topic.

#### Intensity

This evaluation uses the approach for defining intensity (or magnitude) for an impact as presented in Director's Order # 12: Conservation Planning, Environmental Impact Analysis and Decision-Making (NPS, 2001b). Analyses of the potential intensity were derived from the available literature on the Chesapeake Bay and the professional judgment of the NPS study team based on similar projects. The thresholds of change for the intensity of impacts are defined as follows:

- Negligible The impact is localized and not measurable or at the lowest level of detection.
- *Minor* The impact is localized and slight, but detectable.

- Moderate The impact is readily apparent and appreciable.
- Major The impact is severe or beneficial and highly noticeable

In some cases, more specific impact intensity thresholds are provided for the impact topic. If intensity thresholds are not provided, the intensity levels are similar to those stated in this section. Most of the intensities are expressed qualitatively because this SRS is considered a programmatic document.

#### Duration

The planning horizon for this SRS is similar to that of a General Management Plan but the designation and creation of a National Park Service unit would be in perpetuity. Within the planning timeframe, impacts that would occur within five years or less were classified as short-term. Long-term effects would last for more than five years.

#### Context

The context of each impact is described in terms of site-specific, localized, bay-wide or watershed-wide. For instance, the construction of a new interpretive center may have localized adverse impacts to terrestrial resources while National Park Service technical and financial assistance would have watershed-wide benefits to terrestrial resources.

#### **Direct Versus Indirect Impacts**

A direct impact would be caused by an action at the same time and place as the action. An indirect impact would be an impact that is reasonably foreseeable, but occurs later in time at another place, or to another resource. For example, the removal of vegetation (direct impact) would cause soil erosion and sedimentation, thereby affecting the water quality (indirect impact) of a nearby waterway.

#### **Cumulative Impacts**

The Council on Environmental Quality Regulations, which implements the National Environmental Policy Act, requires assessment of cumulative impacts in the decision-making process for federal projects. Cumulative impacts are defined as "the impact on the environment which results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency (federal or non-federal) or person undertakes such other actions" (40 CFR 1508.7). Cumulative impacts are considered for all alternatives and are presented at the end of this section. Cumulative impacts were determined by combining the impacts of the proposed action with other past, present, and reasonably foreseeable future actions. Cumulative impacts are discussed at the end of this section.

# **IMPACT ANALYSIS: NATURAL ENVIRONMENT**

# **Aquatic Resources**

# Methodology

For the impact assessment for aquatic resources, the study team focused on changes to the levels of protection and conservation from the creation of a new park unit or implementation of a new program or policy. The NPS also considered the physical impacts associated with any new development plans, such as the construction of an interpretive center and anticipated visitor uses typical of each park unit (e.g., canoeing, hiking, etc.). Aquatic resources include waterways, wetlands, floodplains, water quality, coastal resources, and aquatic flora and fauna (plants and animals such as submerged aquatic vegetation, emergent vegetation, fish, crabs, and sea turtles). For this programmatic study, the impacts discussed are primarily qualitative because the alternatives are conceptual and quantification of site-specific impacts is difficult.

The alternatives considered in the SRS/EIS have the potential to be in and impact the state's coastal zone. In as much as the Chesapeake Bay SRS/EIS is a programmatic study, the National Park Service will further evaluate the potential impact on the state's coastal zones as site specific information becomes available in later phases of the project and then make a Federal consistency determination that will be submitted to the state's Coastal Zone Management Program for review and concurrence.

The intensity of impact is mostly dependent on the future visitation and existing site characteristics, which have not been identified.

#### Alternative A – No Action

Rather than adding a new Chesapeake Bay-focused unit of the National Park Service, the No Action Alternative assumes the NPS would simply continue its role related to Chesapeake Bay conservation, restoration, education, and interpretation. Through promoting the Gateways Network, educating the public, and providing technical and financial assistance to communities and organizations, the NPS facilitates conservation of the Bay's vital resources. Hence, the continuation of the Gateways Network in coordination with the Chesapeake Bay Program would result in minor, short-term, beneficial impacts to aquatic resources within the entire Chesapeake Bay watershed. A long-term, indirect, adverse impact would occur to aquatic resources if funding for the Gateways Network is not appropriated past 2008 because of the reduction/elimination of the National Park Service's technical and financial assistance to the Gateways. This adverse impact would be watershed-wide.

#### Alternative B – An Enhanced Chesapeake Bay Gateways Network

The Enhanced Chesapeake Bay Gateways Network Alternative makes permanent the watershed-wide partnership of sites and trails within the Chesapeake Bay watershed, while expanding certain NPS roles related to Chesapeake Bay interpretation and conservation. A minor, indirect, longterm, watershed-wide, beneficial impact would occur to aquatic resources through extending long-term technical and financial assistance to local organizations and cooperating Gateways.

The NPS, in partnership with other entities, would create two Chesapeake Bay interpretive centers in proximity to the Bay. The two interpretive centers would educate visitors about the Bay and their role in protecting and conserving the Bay's vital aquatic resources. This educational function would result in a minor to moderate, indirect, long-term, watershed-wide beneficial impact to aquatic resources.

The interpretive centers would be developed within either existing structures or new construction (new or expanded structure). If the centers are constructed within an existing structure, direct impacts to aquatic resources would be negligible. New construction of two centers and associated roads, parking, and support facilities would have localized, adverse impacts on nearby aquatic resources. Impacts typically associated with construction of a new building near the Bay include minor fill in the 100-year floodplains and sediment runoff into nearby waterways from the earth disturbance. However, the degree of impact is largely dependent on the site characteristics and site design, which have not been identified. Impacts would be minimized to the extent practical in accordance with the National Park Service's Management Policies 2001 (NPS, 2000), Director's Order #2 Park Planning (NPS, 1998), and Director's Order #12 Conservation Planning, Environmental Impact Analysis, and Decision-Making (NPS, 2002b).

Visitor use at the Chesapeake Bay interpretive centers and on the surrounding lands would also have a minor, localized, long-term, adverse impact on aquatic resources as some species do not adapt or become stressed when humans are present in their environment. However, the alternative anticipates the two interpretive centers would be placed in previously developed or urbanized area already subject to human disruptions; therefore the impacts would be negligible.

#### Alternative C - Chesapeake Bay Estuary National Park

The core goal of the estuarine National Park would be to conserve, protect, and restore the estuarine environment and natural resources in the park as a high quality natural system. The creation of an estuarine National Park would have a minor to moderate, long-term, beneficial impact on aquatic resources throughout the area of the bay within the park boundaries. Because the direct benefit would be realized in the area local to the park, only a small portion of the Bay is affected by the added protection, enhancement, and restoration of resources. Populations of aquatic biota, such as submerged aquatic vegetation, oysters, crabs, and fish, would be expected to improve because of the efforts typically afforded by park operations. Protection would occur in the forms of reduced commercial harvests, and resource management to facilitate population recovery (e.g., submerged aquatic vegetation).

The NPS would also build a land-based interpretive/orientation center. The construction of the center and associated roads, parking, and facilities would have adverse impacts on nearby aquatic resources. The direct impacts would be localized to the footprint of the facilities and surrounding area where the human activities would take place. Direct impacts associated with new

construction near the Bay would include minor fill in the 100-year floodplains and indirect impacts would include sediment runoff into nearby waterways from the earth disturbance. The degree of impact is largely dependent on the site characteristics and site design, which have not been identified. The impacts would be minimized to the extent practical in accordance with the National Park Service's Management Policies 2001 (NPS, 2000), Director's Order #2 Park Planning (NPS. 1998), and Director's Order #12 Conservation Planning, Environmental Impact Analysis, and Decision-Making (NPS, 2002b).

Visitor uses at water-based national parks tend to include recreational uses such as recreational fishing, boating, sailing, kayaking, canoeing, and picnicking. These uses would have a minor, long-term, localized, adverse impact on aquatic resources because of human disruption to the aquatic environment. Some species do not adapt or become stressed when humans are present in their environment. In addition, the park would attract visitors to the area and this increase in visitation would have an indirect, moderate, long-term, adverse impact on aquatic resources because of human disruption to the aquatic environment such as an increase in noise levels from increased traffic or wave action from boat use. The degree of the impact is largely dependent on the park's size, location, and level of visitation. Additional planning such as a general management plan would help balance visitor use to minimize the environmental impacts.

### Alternative D - A Chesapeake Bay National Reserve

The core goal of this alternative would be to conserve and sustain the traditional working landscape, waters, and natural and cultural resources within the reserve that reflect the Bay's heritage. The national reserve would help protect traditional resource dependent activities such as commercial fishing, crabbing, oystering, agriculture, and forestry from development pressure and for sustainable use. Land conservation and incentives programs to use best management practices for industries such as agriculture and forestry would offer protection to aquatic resources. A moderate, long-term, beneficial impact to aquatic resources would occur through the technical and financial assistance, comprehensive planning and conservation measures of the reserve. The benefits would be mainly localized to the reserve and surrounding area.

The reserve would include development of an interpretive/orientation center within either an existing structure or new construction (new or expanded structure). If within an existing structure, direct impacts to aquatic resources would be negligible. New construction of a center and associated roads, parking, and facilities would have localized adverse impacts on nearby aquatic resources. Impacts typically associated with new construction near the Bay include minor fill in the 100-year floodplains and sediment runoff into nearby waterways from the earth disturbance. The degree of impact is largely dependent on the site characteristics and site design, which have not been identified. The impacts would be minimized to the extent practical in accordance with the National Park Service's Management Policies 2001 (NPS, 2000), Director's Order #2 Park Planning (NPS, 1998), and Director's Order #12 Conservation Planning, Environmental Impact Analysis, and Decision-Making (NPS, 2002b).

Visitor use at the interpretive/orientation center and/or increased visitation in the reserve and its component visitor sites would also have a minor, localized, long-term, adverse impact on aquatic resources because of human disruption to the aquatic environment. Some species do not adapt or become stressed when humans are present in their environment. The degree of the impact is largely dependent on the reserve's size, location, and level of visitation. Additional planning such as a general management plan would help balance visitor use to minimize the environmental impacts.

# Alternative E – Chesapeake Bay Watershed National Ecological and Cultural Preserve

The core goal of the preserve would be to conserve and restore a tributary ecosystem so that human uses are in optimal balance with the natural process, ensuring a vital and sustainable future. This would include conservation of natural resources within a core riparian area and planning and incentives for conservation, sustainable development and best management practices within the tributary watershed. For example, incentives might assist landowners in restoring and maintaining riparian buffer areas to reduce sediment runoff improving water quality in nearby streams. The measures would have a long-term, tributary watershed-wide, beneficial impact on aquatic resources because of added protection and restoration efforts. The degree of impact would be dependent on the size of the preserve, current development pressures, and the amount of previous impairment; however, the study team anticipates that the beneficial impact would be moderate to major. Similarly, the overall direct impact on Bay-wide aquatic resources would also be dependent upon these factors, though the intensity would be lower as this would be only one of many Bay tributaries. However, interpretation and education of conservation stewardship is a key goal of the preserve concept; the interpretive programming would result in a minor to moderate, indirect, long-term, Bay watershed-wide beneficial impact to aquatic resources.

The preserve would include development of an interpretive/orientation center within either an existing structure or new construction (new or expanded structure). If within an existing structure, direct impacts to aquatic resources would be negligible, or beneficial, as remediation measures are incorporated into the design. New construction of a center and associated roads, parking, and facilities would have localized adverse impacts on nearby aquatic resources. Impacts typically associated with new construction near the Bay include minor fill in the 100-year floodplains and sediment runoff into nearby waterways from the earth disturbance. The degree of impact is largely dependent on the site characteristics and site design, which have not been identified. The impacts would be minimized to the extent practical in accordance with the National Park Service's Management Policies 2001 (NPS, 2000), Director's Order #2 Park Planning (NPS, 1998), and Director's Order #12 Conservation Planning, Environmental Impact Analysis, and Decision-Making (NPS, 2002b). Moreover, the core goals of this alternative would place a priority on use of the center as an example of stewardship practices, causing the ultimate structure to incorporate many sustainable design measures.

Visitor use at the interpretive/orientation center and/or increased visitation in the reserve and its component visitor sites would also have a minor, localized, long-term, adverse impact on aquatic resources because of human disruption to the aquatic environment. Some species do not adapt or become stressed when humans are present in their environment. The degree of the impact is largely dependent on the preserve's size, location, and level of visitation. Additional planning such as a general management plan would help balance visitor use to minimize the environmental impacts.

#### Terrestrial Resources

## Methodology

For the impact assessment of terrestrial resources, the NPS study team focused on changes in levels of protection and conservation from the creation of a new park unit or implementation of a new program or policy. The NPS also considered the physical impacts associated with any new development plans, such as an interpretive center and anticipated visitor uses typical of each park unit (e.g., canoeing, hiking, etc.). For this study, terrestrial resources include wildlife, neotropical birds, vegetation, land cover, prime farmlands, soils, geology, forests, and upland flora and fauna. For this programmatic study, the impacts discussed are mostly qualitative because the alternatives are conceptual. The intensity of impact is mostly dependent on the future visitation and existing site characteristics, which have not been identified.

#### Alternative A – No Action

The No Action Alternative assumes the NPS would simply continue its role related to Chesapeake Bay conservation, restoration and interpretation. Through educating the public, and providing technical and financial assistance to communities and organizations, the NPS facilitates conservation of the Bay's vital resources. The continuation of the Gateways Network in coordination with the Chesapeake Bay Program would result in minor, short-term, beneficial impacts to terrestrial resources within the entire Chesapeake Bay watershed. Long-term, minor indirect, adverse impacts would occur related to terrestrial resources if funding for the Gateways Network is not appropriated past 2008 because of the reduction/elimination of the National Park Service's technical and financial assistance to Gateways.

#### Alternative B – An Enhanced Chesapeake Bay Gateways Network

The Enhanced Chesapeake Bay Gateways Network Alternative makes permanent the watershed-wide partnership of sites and trails within the Chesapeake Bay watershed, while expanding NPS roles related to Chesapeake Bay interpretation and conservation. An indirect, long-term, beneficial impact would occur related to terrestrial resources because of technical and financial assistance to local organizations and cooperating Gateways. The two Chesapeake Bay interpretive centers would also help educate visitors of their role in protecting and conserving the Bay's terrestrial resources. The beneficial impact would be watershed wide.

The NPS, in partnership with other entities, would create two Chesapeake Bay interpretive centers in proximity to the Bay. The two interpretive centers would educate visitors about the Bay and their role in protecting and conserving the Bay's vital terrestrial resources. This educational function would result in a minor to moderate, indirect, long-term, watershed-wide beneficial impact to terrestrial resources.

The interpretive centers would be developed within either existing structures or new construction (new or expanded structure). If within an existing structure, direct impacts to terrestrial resources would be negligible. The construction of two Chesapeake Bay interpretive centers and associated roads, parking, and support facilities would have long-term adverse impacts on terrestrial resources on and adjacent to the construction sites. The impact would result from land disturbance of forest, vegetation or other terrestrial resources, which is potential habitat to animals and birds. However, the degree of impact is largely dependent on the site characteristics and site design, which have not been identified. The impacts would be minimized to the extent practical in accordance with the National Park Service's Management Policies 2001 (NPS, 2000), Director's Order #2 Park Planning (NPS, 1998), and Director's Order #12 Conservation Planning, Environmental Impact Analysis, and Decision-Making (NPS, 2002b).

Visitor uses at the Chesapeake Bay interpretive centers and on the surrounding land would also have a localized, long-term, adverse impact on terrestrial resources in the immediate vicinity of the interpretive centers. Some species do not readily adapt or become stressed when humans are present in their environment. In addition, the park would attract visitors to the area and this increase in visitation would have an indirect, moderate. long-term, adverse impact on terrestrial resources because of disruption to the terrestrial environment such as an increase in noise levels from increased traffic. However, it is anticipated that the two interpretive centers would be placed in previously developed or urbanized areas already subject to human disruptions; therefore, the impacts the impacts would be negligible.

# Alternative C - Chesapeake Bay Estuary National Park

The goal of the estuarine National Park would be to conserve, protect, and restore the estuarine environment and natural resources in the park as a high quality natural system. The creation of a national park would have a longterm, beneficial impact on adjacent terrestrial resources because the NPS would offer added protection, enhancement, and restoration to resources within the boundaries of the park. Populations of terrestrial biota, such as forests, coastal vegetation, neotropical birds, and water birds, would be expected to improve because of the efforts typically afforded by park operations. Protection would occur in the forms of managed recreational extractions and resource management. Long-term, localized, beneficial impacts would occur within the park boundaries from protection of the land activities in the park. However, the beneficial impacts to terrestrial resources would be minor because the majority of the park would be water based.

Under this alternative, the NPS would build a land-based interpretive center. The construction of the interpretive center and associated roads, parking, and facilities would have localized, adverse impacts on terrestrial resources. The impact would result from land disturbance of forest, vegetation, or other terrestrial resources, which is potential habitat to animals and birds. The

study team anticipates the impact to be minor to moderate; however, the degree of impact is largely dependent on the site characteristics and site design, which have not been identified. The impacts would be minimized to the extent practical in accordance with the National Park Service's Management Policies 2001, Director's Order #2 Park Planning (NPS, 1998), and Director's Order #12 Conservation Planning, Environmental Impact Analysis, and Decision-making (NPS, 2002b).

Visitor use at water-based national parks tends to include recreational uses such as hiking, picnicking, canoeing, and kayaking. These low impact uses would also have a minor, long-term, localized, adverse impact on terrestrial resources because of human disruption to the terrestrial environment. For instance, national parks typically have trails and paths that allow visitors to hike into the terrestrial environment. Hiking results in a physical disturbance to vegetation and soils. In addition, some species do not readily adapt or become stressed when humans are present in their environment. Furthermore, the park would attract visitors to the area, and this increase in visitation would have an indirect, moderate, long-term, adverse impact on terrestrial resources because of human disruption to the environment such as an increase in noise levels from increased traffic. The degree of the impact is largely dependent on the park's size, location and level of visitation. Additional planning, such as a general management plan, would help balance visitor use to minimize the environmental impacts.

#### Alternative D – A Chesapeake Bay National Reserve

The core goal of this alternative would be to conserve and sustain the traditional working landscape, waters, and natural and cultural resources within the reserve to reflect the Bay's heritage. The NPS would help protect traditional resource dependent activities such as agriculture and forestry from development pressures and for sustainable use. A moderate, long-term, beneficial impact on terrestrial resources would occur from the technical and financial assistance provided by the NPS for comprehensive planning for the reserve. The beneficial impact is likely to be moderate locally while having a minor impact to the watershed as a whole. For instance, the comprehensive plan could set in effect strategies for reducing conversion of farm and forestlands to non-resource uses, thereby protecting soils of statewide importance, prime farmlands, and other significant terrestrial resources.

The reserve would include development of an interpretive/orientation center within either an existing structure or new construction (new or expanded structure). If within an existing structure, direct impacts to terrestrial resources would be negligible. New construction of a center and associated roads, parking, and facilities would have localized, adverse impacts on nearby terrestrial resources. The impact would result from land disturbance of forest, vegetation, or other terrestrial resources, which is potential habitat to animals and birds. The impact would be anticipated to be minor to moderate; however, the degree of impact is largely dependent on the site characteristics and site design, which have not been identified. The impacts would be minimized to the extent practical in accordance with the National Park Service's Management Policies 2001 (NPS, 2000), Director's Order #2 Park Planning (NPS, 1998), and Director's Order #12 Conservation Planning, Environmental Impact Analysis, and Decision-Making (NPS, 2002b).

Visitor use at the interpretive center and/or increased visitation in the reserve and its component visitor sites would also have a minor, long-term, localized, adverse impact on terrestrial resources in the immediate vicinity of the activities because of human disruption to the terrestrial environment. In addition, the park would attract visitors to the area, and this increase in visitation would have an indirect, minor, long-term, adverse impact on terrestrial resources because of disruption to the terrestrial environment. such as an increase in noise levels from increased traffic.

# Alternative E - Chesapeake Bay Watershed National Ecological and Cultural Preserve

The core goal of the preserve would be to conserve and restore a tributary ecosystem so that human uses are in optimal balance with natural processes, ensuring a vital and sustainable future. The NPS, in partnership with other state and local agencies, would develop a program to protect and restore natural resources within the core riparian area. These efforts would have a regional, long-term, beneficial impact on terrestrial resources within a Bay tributary. The impact would be anticipated to be moderate within the preserve; however, the degree of the impact would be dependent on the size of the preserve, current development pressures, and the amount of previous impairment.

The NPS, through partnerships, would provide demonstration sites throughout the preserve to educate visitors about innovative and sustainable management practices in agriculture, forestry, and commercial and residential development. Visitor education would indirectly have a watershed-wide, beneficial impact on terrestrial resources, such as soils because of the implementation of modern erosion and stormwater control practices. In addition, incentives for conservation easements and resource protection zones would offer benefits to protect terrestrial resources in the watershed.

The preserve would include development of an interpretive/orientation center within either an existing structure or new construction (new or expanded structure). If within an existing structure, direct impacts to terrestrial resources would be negligible, or beneficial, as remediation measures are incorporated into the design. New construction of a center and associated roads, parking, and facilities would have localized, adverse impacts on nearby terrestrial resources. The impact would result from land disturbance of forest, vegetation, or other terrestrial resources, which is potential habitat to animals and birds. The impact would be anticipated to be minor to moderate; however, the degree of impact is largely dependent on the site characteristics and site design, which have not been identified. The impacts would be minimized to the extent practical in accordance with the National Park Service's Management Policies 2001 (NPS, 2000), Director's Order #2 Park Planning (NPS, 1998), and Director's Order #12 Conservation Planning, Environmental Impact Analysis, and Decision-Making (NPS, 2002b). Moreover, the core goals of this alternative would place a priority on use of the center as an example of stewardship practices, causing the ultimate structure to incorporate many sustainable design measures.

Visitor use at the interpretive/orientation and/or increased visitation in the reserve and its component visitor sites would also have a minor, long-term, adverse impact on terrestrial resources in the immediate vicinity of the activities because of human disruption to the terrestrial environment. In addition, the park would attract visitors to the area and this increase in visitation would have an indirect, localized, long-term, adverse impact on terrestrial resources because of disruption to the terrestrial environment, such as an increase in noise levels from increased traffic. The impacts would be minor.

# Threatened, Endangered, and Rare Species and Natural Communities

## Methodology

In the impact assessment for threatened, endangered, and rare species and natural communities, the NPS study team focused on changes to levels of protection and conservation from the creation of a new park unit or implementation of a new program or policy. The NPS also considered the physical impacts associated with any new development plans and anticipated visitor uses. The impact analysis of threatened, endangered, and rare species and natural communities is defined to encompass all federally and state listed protected species, critical habitats, candidate species, and protected ecological community types within the Chesapeake Bay watershed. This includes aquatic and terrestrial species and habitats listed by the U.S. Fish and Wildlife Service, the National Marine Fisheries Service, and designated agencies in the six states and the District of Columbia that are part of the watershed. For this programmatic study, the impacts discussed are mostly qualitative because the alternatives are conceptual. The intensity of impact is mostly dependent on the future visitation, location, and existing site characteristics, which have not been identified.

#### Definition of Intensity Levels

Analyses of the potential intensity of threatened, endangered, and rare species and natural communities were derived from the available literature on the Chesapeake Bay. The thresholds of change for the intensity of impacts are defined as follows:

- Negligible The impact would be expected to have an insignificant and discountable effect on special status species and their habitat.
- *Minor* The impact is localized and slight, but detectable.
- *Moderate* The impact is readily apparent and appreciable. The impact to listed species or their habitat is likely to be adverse or beneficial.
- Major The impact is severe or beneficial and highly noticeable. The
  determination according to Section 7 of the Threatened and Endangered
  Species Act would be an adverse effect.

#### Alternative A - No Action

The No Action Alternative assumes the NPS would simply continue its role related to Chesapeake Bay conservation, restoration, and interpretation. Through promoting the Gateways Network, educating the public, and providing technical and financial assistance to communities and organizations, the NPS facilitates conservation of the Bay's vital resources. As a result, continuation of the Gateways Network, in coordination with the

Chesapeake Bay Program, would result in minor, short-term, beneficial impacts on protected species within the entire Chesapeake Bay watershed. Long-term, indirect, adverse impacts would occur to threatened, endangered, and rare species and natural communities if funding for the Gateways Network is not appropriated past 2008 because of the reduction/elimination of the National Park Service's technical and financial assistance to help the Gateways to continue to protect these species.

# Alternative B - An Enhanced Chesapeake Bay Gateways Network

The Enhanced Chesapeake Bay Gateways Network Alternative makes permanent the watershed-wide partnership of sites and trails within the Chesapeake Bay watershed, while expanding NPS roles related to Chesapeake Bay interpretation and conservation. Thus, there would be an indirect, long-term, beneficial impact on protected species through technical and financial assistance to local organizations and cooperating Gateways. The two interpretive centers would also help educate visitors of their role in protecting and conserving threatened, endangered, and rare species and natural communities.

The National Park Service, in partnership with other entities, would create two Chesapeake Bay interpretive centers in proximity to the Bay. The two interpretive centers would educate visitors about their Bay and their role in protecting and conserving the Bay's unique species. This educational function would result in a minor to moderate, indirect, long-term. watershed-wide beneficial impact to rare, threatened, and endangered species.

The interpretive centers would be developed within either existing structures or new construction (new or expanded structure). If within an existing structure, direct impacts to threatened, endangered, and rare species would be negligible. The construction of two Chesapeake Bay interpretive centers and associated roads, parking, and support facilities would have minor adverse impacts on threatened, endangered, and rare species and natural communities located on and adjacent to the construction sites. The impact would result from the disturbance to the specie or its habitat from the construction related activities, such as earth disturbance. The degree of impact is largely dependent on the site location and characteristics, which have not been identified. The impacts would be minimized to the extent practical in accordance with the National Park Service's Management Policies 2001 (NPS, 2000), Director's Order #2 Park Planning (NPS, 1998), and Director's Order #12 Conservation Planning, Environmental Impact Analysis, and Decision-Making (NPS, 2002b). Section 7 coordination under the Endangered Species Act would be conducted with the U.S. Fish and Wildlife Service, the National Marine Fisheries Service, and appropriate state resource agencies prior to implementation of any alternative.

Visitor use at Chesapeake Bay interpretive centers and surrounding land would have a minor, long-term, adverse impact on protected species in the immediate vicinity of the interpretive centers because of human disruption to the environment. However, this alternative anticipates the two interpretive centers would be placed in previously developed or urbanized areas already subject to human disruptions; therefore the impacts would be negligible.

### Alternative C - Chesapeake Bay Estuary National Park

The goal of an estuarine National Park would be to conserve, protect, and restore the estuarine environment and natural resources in the park as a high quality natural system. The creation of a national park would have a long-term, beneficial impact on protected species and habitats because the NPS would offer added protection, enhancement, and restoration to resources within the boundaries of the park. Populations of protected species can be expected to be sustained or increased because of the efforts typically afforded by park operations. Protection would occur because of managed recreational fishing and extractions, habitat management to facilitate population recovery, and land acquisition/easements to control habitat disturbances (e.g., forestry, commercial development).

Under Alternative C, the NPS would build a land-based interpretive center. The construction of the interpretive center and associated roads, parking, and facilities would have adverse impacts on threatened or endangered species on and adjacent to the sites. The impact would result from the disturbance to a species or its habitat from construction related activities such as earth disturbance. The degree of impact is largely dependent on the site characteristics and site design, which have not been identified. The impacts would be minimized to the extent practical in accordance with the National Park Service's Management Policies 2001 (NPS, 2000), Director's Order #2 Park Planning (NPS, 1998), and Director's Order #12 Conservation Planning, Environmental Impact Analysis, and Decision-Making (NPS, 2002b). Section 7 coordination under the Endangered Species Act would be conducted with the U. S. Fish and Wildlife Service, the National Marine Fisheries Service, and appropriate state resource agencies prior to implementation of the alternative.

Visitor use at water-based national parks tends to include recreational uses such as hiking, picnicking, canoeing, and other low impact uses. These low impact uses could also have a minor, long-term, adverse impact near the activity because of the human disruption. The degree of the impact is largely dependent on the park's size, location, and site design. Additional planning, such as a general management plan and implementation of mitigation measures, which would be identified in later studies, would help balance visitor use to minimize the impacts on protected species.

#### Alternative D – A Chesapeake Bay National Reserve

The primary goal of this alternative would be to conserve and sustain the traditional working landscape, waters, and natural and cultural resources within the reserve that reflects the Bay's heritage. As part of this goal, NPS would help protect sensitive natural and cultural resource sites, which could include habitat for threatened, endangered and rare species and natural communities. Hence, a moderate, long-term, regional, beneficial impact on threatened, endangered, and rare species and natural communities would occur comprehensive planning and direct conservation.

Under Alternative D, the NPS, in partnership with other government entities, would build a primary interpretive center in close proximity to the Bay. The construction of an interpretive center and associated roads, parking, and

facilities would have adverse impacts on any protected species present at the construction site. The impact would result from the disturbance to the specie or its habitat from construction related activities, such as earth disturbance. The degree of impact is largely dependent on the site characteristics and site design, which have not been identified. The impacts would be minimized to the extent practical in accordance with the National Park Service's Management Policies 2001 (NPS, 2000), Director's Order #2 Park Planning (NPS, 1998), and Director's Order #12 Conservation Planning, Environmental Impact Analysis, and Decision-Making (NPS, 2002b), Section 7 coordination under the Endangered Species Act would be conducted with the U.S. Fish and Wildlife Service, the National Marine Fisheries Service, and appropriate state resource agencies prior to implementation of this alternative.

Visitor use at the interpretive center and surrounding land would have minor, long-term, adverse impacts on any protected species present. Human disruption of habitat is the primary source of impacts. Recreational activities. including low-impact activities such as kayaking, hunting, and fishing would be restricted in areas where identified threatened, endangered, and rare species and natural communities occur.

## Alternative E - Chesapeake Bay Watershed National Ecological and Cultural Preserve

The goal of the preserve would be to conserve and restore a tributary ecosystem so that human uses are in optimal balance with the natural environment, ensuring a vital and sustainable future. The NPS, in partnership with other state and local agencies, would develop a program to protect and restore natural resources in the core riparian area. There efforts would have a minor to moderate, long-term, regional, beneficial impact on threatened, endangered, and rare species and natural communities along the tributary to the Bay. The degree of the impact would be dependent on the size of the preserve, current development pressures, and the amount of previous impairment.

The preserve would include development of an interpretive/orientation center within either an existing structure or new construction (new or expanded structure). If within an existing structure, direct impacts to RTE species would be negligible, or beneficial, as remediation measures are incorporated into the design. The new construction of an interpretive center and associated roads, parking and facilities would have direct adverse impacts on protected species at the site of the construction. The impact would result the physical disruption to the species from construction or from the reduction of habitat. The degree of impact is largely dependent on the site characteristics and site design, which have not been identified. The impacts would be minimized to the extent practical in accordance with the National Park Service's Management Policies 2001 (NPS, 2000), Director's Order #2 Park Planning (NPS,1998), and Director's Order #12 Conservation Planning. Environmental Impact Analysis, and Decision-Making (NPS, 2002b). Section 7 coordination under the Endangered Species Act would be conducted with the U.S. Fish and Wildlife Service, the National Marine Fisheries Service, and appropriate state resource agencies prior to implementation of the alternative.

Visitor use at the interpretive center and other demonstration sites would have a minor, long-term, adverse impact on any protected species present. Human disruption of habitat is the primary source of impacts. Recreational activities, including low-impact activities such as hiking, hunting, and fishing, would be restricted in areas where threatened, endangered, and rare species and natural communities are known to exist.

# **Air Quality**

#### Methodology

In the impact assessment for air quality, the NPS study team focused on changes to levels of protection and conservation from the creation of a new park unit or implementation of a new program or policy. The NPS also considered the physical impacts associated with any new development plans and anticipated visitor uses. The context of the evaluation was the airshed of the Chesapeake Bay. For this programmatic study, the impacts discussed are mostly qualitative because the alternatives are conceptual. Attainment or non-attainment status is discussed in the affected environment; however, for this programmatic document, the potential impacts on the National Ambient Air Quality Standards (NAAQS) cannot be determined because the analysis would be highly dependent on the location of the park unit and anticipated visitation levels, which have not been determined.

#### Definition of Intensity Levels

Analyses of the potential intensity levels resulting from each alternative on air quality were derived from the available information from the region. Definitions for the thresholds of change for the intensity of impacts on air quality are as follows:

- Negligible The impact is localized and not measurable or at the lowest level of detection.
- *Minor* The impact is localized and slight, but detectable. The impact would have no affect on the ability to comply with NAAQS.
- Moderate The impact is readily apparent and appreciable. The impact would have an effect when added to other planned projects in the area on the ability to comply with NAAQS.
- Major The impact is severe or beneficial and highly noticeable. The impact would have an effect on the ability to comply with NAAQS.

#### Alternative A – No Action

The No Action Alternative assumes the NPS would simply continue its role related to Chesapeake Bay conservation, restoration, and interpretation. The National Park Service's continuance of the Gateways Networks would result in no impacts to air quality in the Chesapeake Bay watershed.

#### Alternative B – An Enhanced Chesapeake Bay Gateways Network

The Enhanced Chesapeake Bay Gateways Network Alternative would expand and extend the National Park Service's coordination with Gateways and local organizations, which would result in minor, long-term, in-direct, beneficial impacts on air quality. The benefits would occur through added financial and technical assistance for education, interpretation, protection, and conservation of the Bay's resources that are important to good air quality.

The NPS, in partnership with other entities, would create two Chesapeake Bay interpretive centers in proximity to the Bay. The two interpretive centers would educate visitors about the Bay and their role in protecting and conserving the Bay's vital resources and the indirect effects on air quality. This educational function would result in minor, indirect, long-term, watershed-wide beneficial impact to air quality.

The interpretive centers would be developed within either existing structures or new construction (new or expanded structure). If within existing structures, direct impacts to air quality would be negligible. The construction of two Chesapeake Bay interpretive centers and associated roads, parking, and support facilities would have direct, short-term, localized, minor, adverse impacts on air quality from emissions and fugitive dust generated from construction activities. The degree of impact is largely dependent on the size of the facilities, which have not been identified. The impacts would be minimized to the extent practical in accordance with the National Park Service's Management Policies 2001 (NPS, 2000), Director's Order #2 Park Planning (NPS, 1998), and Director's Order #12 (Conservation Planning, Environmental Impact Analysis, and Decision-Making (NPS, 2002b and through compliance with the National Ambient Air Quality Standards.

Visitor use at the Chesapeake Bay interpretive centers and on the surrounding lands would also have a minor, localized, long-term, adverse impact on air quality However, this alternative anticipates the two interpretive centers would be placed in previously developed or urbanized areas already subject to human disruptions; therefore the impacts would be negligible.

#### Alternative C - Chesapeake Bay Estuary National Park

The creation of a national park would have a long-term, beneficial impact on air quality because, within the boundaries of the park, the NPS would limit land use, commercial facilities, and other activities that would be sources of air emissions. However, the impact is site-specific and negligible to minor because under this alternative, the land base encompasses a relatively small area focused on providing access the Chesapeake Bay.

Under Alternative C, the NPS, in partnership with other entities, would create a land-based Chesapeake Bay interpretive center. The construction of the Chesapeake Bay interpretive center and associated roads, parking, and support facilities would have direct, short-term, localized, adverse impacts on air quality from emissions and fugitive dust generated from construction activities. The degree of impact is largely dependent on the site characteristics and site design, which have not been identified. The impacts would be minimized to the extent practical in accordance with the National Park Service's Management Policies 2001 (NPS, 2000), Director's Order #2 Park Planning (NPS, 1998), and Director's Order #12 Conservation Planning, Environmental Impact Analysis, and Decision-Making (NPS, 2002b) and through compliance with the National Ambient Air Quality Standards.

Increased visitation to the surrounding area because of the creation of the new national park would increase emissions from visitors' vehicle and boat trips. The increased emissions would be expected to have a minor to moderate long-term, adverse impact on air quality from emissions. The degree of the impact would be dependent on visitation levels and more specifically, vehicle/boat trips to and from the site.

#### Alternative D - A Chesapeake Bay National Reserve

A minor, long-term, beneficial impact to air quality would occur through technical and financial assistance provided by the NPS for comprehensive planning and the implementation of sustainable practices within the reserve. The NPS, through partnerships, would provide technical assistance to help local communities within the reserve to adopt and implement a comprehensive plan whose purpose is conservation of the reserve landscape and protection against urban sprawl and development, thereby limiting the sources of air emissions.

The reserve would include development of an interpretive/orientation center within either an existing structure or new construction (new or expanded structure). If within an existing structure, direct impacts to air quality would be negligible. New construction of a center and associated roads, parking, and facilities would have localized adverse impacts on air quality. Increased visitation and visitor use at the interpretive center and surrounding land area would have a minor, long-term, adverse impact to the air quality from vehicle emissions. The degree of impact is largely dependent on the visitation levels, and site location, which have not been identified. The impacts would be minimized to the extent practical in accordance with the National Park Service's Management Policies 2001 (NPS, 2000), Director's Order #2 Park Planning (NPS, 2002), and Director's Order #12 Conservation Planning, Environmental Impact Analysis, and Decision-Making (NPS, 2002b) and through compliance with the National Ambient Air Quality Standards.

# Alternative E – Chesapeake Bay Watershed National Ecological and Cultural Preserve

A minor, long-term, beneficial impact on air quality would occur from technical and financial assistance provided by the NPS to state, local, and private entities within a preserve type setting. The NPS, through partnerships, would educate visitors about innovative and sustainable management practices in agriculture, forestry, and commercial and residential development. The preserve would indirectly have a beneficial impact on air quality from incentives for conservation easements and resource protection zones that offer benefits to reduce sprawl and residential and commercial development within the preserve's boundaries.

The preserve would include development of an interpretive/orientation center within either an existing structure or new construction (new or expanded structure). If within an existing structure, direct impacts to air quality resources would be negligible, or beneficial, as remediation measures are incorporated into the design. New construction of a center and associated roads, parking, and facilities would have localized adverse impacts on local air quality.

Increased visitation and visitor use at the interpretive center and surrounding area would have a minor, long-term, adverse impact on the air quality from

vehicle emissions. The degree of impact is largely dependent on visitation levels, site characteristics, and site design, which have not been identified. The impacts would be minimized to the extent practical in accordance with the National Park Service's Management Policies 2001 (NPS, 2000), Director's Order #2 Park Planning (NPS, 1998), and Director's Order #12 Conservation Planning, Environmental Impact Analysis, and Decision-Making (NPS, 2002b) and through compliance with the National Ambient Air Quality Standards.

## IMPACT ANALYSIS: CULTURAL ENVIRONMENT

Section 101(b)(4) of the National Environmental Policy Act of 1969 (P.L. 91-190), as amended, directs the federal government to coordinate and plan its actions to, among other goals, "preserve important historic, cultural and natural aspects of our national heritage...."The Council on Environmental Quality's implementing regulations also require that federal impacts on historic and cultural resources be included as part of the National Environmental Policy Act process. The NPS is mandated to preserve and protect its cultural resources through the Organic Act of 1916 (USC title 16) and such specific legislation as the Antiquities Act of 1906 (16 USC 431); the National Historic Preservation Act of 1966, as amended (16 USC 470); the National Environmental Policy Act of 1969, as amended (42 USC 4321, 4331, 4332); the Archaeological Resources Protection Act of 1979 (16 USC 470); and the Native American Graves Protection and Repatriation Act of 1990 (25 USC 3001). The management of cultural resources is also generally guided by the Advisory Council on Historic Preservation (36 CFR 800), and specifically, by the "Protection of Historic Properties" under Section 106 of the National Historic Preservation Act. Therefore, as part of the Chesapeake Bay Special Resource Study, the NPS will evaluate the potential impacts of several different alternatives upon the local cultural environment.

# Impacts on Cultural Resources

#### Methodology

For the purposes of this programmatic analysis, all cultural resources, including archeological sites, historic structures, cultural landscapes, and ethnographic resources, are grouped together because many of the potential impacts or benefits to these resources are operationally similar. However, they are individually described with reference to their defining characteristics to allow subsequent consideration for potential impacts.

In order for an archeological site or historic structure to be eligible for the National Register of Historic Places, it must meet one or more of the following criteria of significance:

- Associated with events that have made a significant contribution to the broad patterns of our history;
- Associated with the lives of significant persons in our past;
- Embody the distinctive characteristics of a type, period, or method of
  construction, represent the work of a master, possess high artistic value,
  or represent a significant and distinguishable entity whose components
  may lack individual distinction; and/or
- Yielded, or may be likely to yield, information important in prehistory or history.

In addition, archeological sites and historic structures must also possess integrity of location, design, setting, materials, workmanship, feeling, and/or association (National Register Bulletin, Guidelines for Evaluating and Registering Archeological Properties). The Chesapeake Bay region contains a vast array of archaeological sites and historic structures already listed on the National Register, and untold numbers remain to be identified in the future.

A cultural landscape is defined by the NPS Cultural Resource Management Guideline (Director's Order #28) as, "...a reflection of human adaptation and use of natural resources and often expressed in the way land is organized and divided, patterns of settlement, land use, systems of circulation, and the types of structures built. The character of a cultural landscape is defined both by physical materials, such as roads, buildings, walls, and vegetation, and by uses reflecting cultural values and traditions." A wide variety of cultural landscapes, both prehistoric and historic, likely exist within the region defined as the Chesapeake Bay watershed.

An ethnographic resource is defined by the NPS as any "site, structure, object, landscape, or natural resource feature assigned traditional legendary, religious, subsistence, or other significance in the cultural system of a group traditionally associated with it" (DO-28, Cultural Resource Management Guidelines, p. 191). Unfortunately, most ethnographic resources remain undocumented for the Chesapeake Bay area; however, with Native American consultation and historic economic research, many such resources are likely to be identified within the region.

#### Definition of Intensity Levels

To provide consistency with requirements of the National Environmental Policy Act, the effects on any of the above cultural resources are described in terms of intensities intended to convey the nature and duration of any potential impact. For these purposes, the intensity of an impact is defined as follows:

- *Negligible* The impact is at the lowest levels of detection, barely perceptible and therefore not measurable.
- *Minor* The impact is perceptible and measurable, but would not affect the character-defining features of an eligible or listed National Register of Historic Places site, structure or building.
- Moderate The impact is readily apparent and appreciable and sufficient to alter a character-defining feature(s) of the site, structure, or building, but would not diminish the integrity of the resource to the extent that its National Register eligibility is jeopardized.
- *Major* The impact results in a severe or beneficial and highly noticeable change to some character defining feature(s) of a site or structure, diminishing the integrity of the resource such that it is no longer eligible to be listed in the National Register.

The NPS study team focused on changes to levels of protection, conservation, and land use to assess the potential impacts from the creation of a new park unit and/or the implementation of new programs or policy. The National Park Service also considered the physical impacts associated

with any new development plans, such as an interpretive center and anticipated visitor uses typical of each park unit. Specific impacts are highly dependent on the future visitation, size, and location of the park unit, and its facilities in reference to existing cultural resources, which have not yet been identified.

## Alternative A - No Action

Under the No Action Alternative, the NPS would continue to promote the Gateways Network, educate the public, and provide technical and financial assistance to communities and organizations for the conservation of the Bay's vital resources through 2008. This assistance includes interpretive materials for many of the Bay's cultural resources and assists in cultural resource conservation projects. There would be a minor, short-term, beneficial impact on the cultural resources in the Chesapeake region because of the technical and financial assistance for protection of cultural resources; impacts may be both direct and indirect depending upon location. However if funding is not appropriated past 2008, then potentially a negligible, adverse, impact on cultural resources would likely result from the discontinuance of the Gateways Network.

NPS management of National Park System units such as the George Washington Birthplace and the Fort McHenry National Monument and Historic Shrine would continue. Impacts of existing NPS unit management decisions are independent of this SRS and are assessed through site-specific environmental analysis.

# Alternative B - An Enhanced Chesapeake Bay Gateways Network

Implementation of an Enhanced Chesapeake Bay Gateway Networks Alternative would extend financial and technical assistance to designated Gateways for conserving and restoring cultural resources. Two interpretive centers would educate visitors on the historic significance of various cultural resources in the Bay's watershed. As a result, a moderate, long-term, indirect, beneficial impact on cultural resources would occur from the restoration and education aspects of this alternative.

The NPS, in partnership with other entities, would create two Chesapeake Bay interpretive centers in proximity to the Bay. The two interpretive centers would educate visitors about the Bay and their role in protecting and conserving the Bay's cultural resources. This educational function would result in a minor to moderate, indirect, long-term, watershed-wide beneficial impact to cultural resources as conservation and interpretation efforts are enhanced.

The interpretive centers would be developed within either existing structures or new construction (new or expanded structure). If constructed within an existing non-historic structure, direct impacts to cultural resources would be negligible. Construction of two new interpretive centers would result in an adverse impact on cultural resources if the location of the surrounding cultural resources were within the area of potential effect. The NPS would minimize impacts on historic structures, cultural landscapes, and archeological resources to the extent practical through adherence to National Park Service's *Management Policies 2001* (NPS, 2000), *Director's* 

Order #2 Park Planning (NPS, 1998), and Director's Order #12 (Conservation Planning, Environmental Impact Analysis, and Decision-Making) (NPS, 2002b). The planning and design of the interpretive centers would consider surrounding archeology and historic resources listed or eligible for listing in the National Register of Historic Places in accordance with the National Historic Preservation Act, Secretary of the Interior's Standards for the Treatment for Historic Properties, and Director's Order #28: Cultural Resource Management (1998b). The NPS would coordinate with the State Historic Preservation Office and appropriate federal agencies. Additional study would occur during the planning process for each center.

# Alternative C - Chesapeake Bay Estuary National Park

The creation of an estuary national park would have a minor, long-term, beneficial impact on cultural resources. NPS would protect cultural resources within the boundaries of the park. However, the water-based focus of this concept is likely to result in a reduced number of cultural resources present within the park relative to the amount of cultural resources present in other alternatives.

The reserve would include development of an interpretive/orientation center within either an existing structure or new construction (new or expanded structure). New construction of an interpretive center and associated roads, parking, and facilities would have localized adverse impacts on nearby cultural resources. The NPS would minimize impacts to archeological resources, historic structures, cultural landscapes, and ethnographic resources to the extent practical through adherence to the National Park Service's Management Policies 2001 (NPS, 2000), Director's Order #2 Park Planning (NPS, 1998), and Director's Order #12 (Conservation Planning, Environmental Impact Analysis, and Decision-Making) (NPS, 2002b). The planning and design of the interpretive centers would consider surrounding archeology and historic resources listed or eligible for listing in the National Register of Historic Places in accordance with the National Historic Preservation Act, Secretary of the Interior's Standards for the Treatment for Historic Properties, and Director's Order #28: Cultural Resource Management (1998b). The NPS would coordinate with the State Historic Preservation Office and appropriate federal agencies. Additional study would occur prior to implementing this alternative.

#### Alternative D - A Chesapeake Bay National Reserve

The Bay resources for the Chesapeake Bay National Reserve would include one or more waterfront maritime communities and associated resources, such as historic and cultural resources representing the Bay's long maritime and agricultural heritage. The goal of the reserve is to protect and sustain the working landscape, and conserve the reserve landscape including cultural resources. The implementation of the primary interpretive center would help educate visitors to the significance of historic and archeological sites along the Bay. The technical and financial assistance to help conserve, interpret, and protect sensitive cultural resources would have a moderate long-term, and both direct and indirect, beneficial impact on cultural resources in the reserve.

As with Alternative C, the reserve would include development of an interpretive/orientation center within either an existing structure or new construction (new or expanded structure). If constructed within an existing structure, the interpretive center would have direct but negligible impacts to cultural resources. New construction of a center and associated roads. parking, and facilities would have localized adverse impacts on nearby cultural resources located within the area of potential effect. The NPS would minimize impacts on archeological resources, historic structures, cultural landscapes, and ethnographic resources to the extent practical through adherence to the National Park Service's Management Policies 2001 (NPS, 2000), Director's Order #2 Park Planning (NPS. 1998), and Director's Order #12 (Conservation Planning, Environmental Impact Analysis, and Decision-Making) (NPS, 2002b). The planning and design of the interpretive center would consider surrounding archeology and historic resources listed or eligible for listing in the National Register of Historic Places in accordance with the National Historic Preservation Act, Secretary of the Interior's Standards for the Treatment for Historic Properties, and Director's Order #28: Cultural Resource Management (1998b). The NPS would coordinate with the State Historic Preservation Office and appropriate federal agencies. Additional study would occur prior to implementing this alternative.

# Alternative E – Chesapeake Bay Watershed National Ecological and Cultural Preserve

Under Alternative E, the NPS would provide financial and technical assistance to help the preserve partners with their comprehensive watershed management planning and the development of a comprehensive, preserve-wide, watershed management plan. Although this plan would be highly focused on ecological resources, the plan would also include cultural resource protection. The NPS would help acquire, own, and manage, select resources in cooperation with other preserve partners and set up conservation easements for resource protection and interpretive cooperative agreements. Furthermore, the NPS would provide matching funding for the development of the interpretive educational center. A moderate, long-term, beneficial impact on cultural resources would occur from the added resource protection.

The preserve would include development of an interpretive/orientation center within either an existing structure or new construction (new or expanded structure). If it is constructed within an existing structure, direct impacts to cultural resources would be negligible or beneficial, as remediation measures are incorporated into the design. However, as with Alternative D, the construction of any interpretive center would result in an adverse impact on cultural resources if the location of the surrounding cultural resources were within the area of potential effect. The NPS would minimize impacts on archeological resources, historic structures, cultural landscapes, and ethnographic resources to the extent practical through adherence to the National Park Service's Management Policies 2001 (NPS, 2000), Director's Order #2 Park Planning (NPS, 1998), and Director's Order #12 (Conservation Planning, Environmental Impact Analysis, and Decision-Making) (NPS, 2002b). The planning and design of the interpretive center would consider surrounding archeology and historic resources listed or eligible for listing in the National Register of Historic Places in accordance

with the National Historic Preservation Act, Secretary of the Interior's Standards for the Treatment for Historic Properties and Director's Order #28: Cultural Resource Management (1998b). The NPS would coordinate with the State Historic Preservation Office and appropriate federal agencies. Additional study would occur prior to implementing this alternative.

# IMPACT ANALYSIS: SOCIOECONOMIC ENVIRONMENT

# Land Use (including Jurisdictional Boundaries)

## Methodology

In the impact assessment for land use and changes in jurisdictional boundaries, the NPS study team focused on changes to land use from the creation of a new park unit or implementation of a new program or policy. For this programmatic study, the impacts discussed are mostly qualitative because the alternatives are conceptual. The intensity of impact is for the most part dependent on the location and size of the park unit, which have not been identified.

#### Alternative A - No Action

Rather than adding a new Chesapeake Bay-focused unit of the National Park Service, the No Action Alternative assumes the NPS would simply continue its role related to Chesapeake Bay conservation, restoration, and interpretation. Some minor, very localized, beneficial, direct land use changes may occur associated with Chesapeake Bay Gateways grants projects funded through 2008. These would generally be changes to enhance interpretation, conservation or public access to the Bay consistent with Chesapeake Bay Program land use and education goals. No changes to jurisdictional boundaries would be anticipated as part of this alternative.

#### Alternative B - An Enhanced Chesapeake Bay Gateways Network

The Enhanced Chesapeake Bay Gateways Network Alternative makes permanent the watershed-wide partnership of sites and trails within the Chesapeake Bay watershed, while expanding certain NPS roles related to Chesapeake Bay interpretation and conservation. Minor, localized, beneficial, land use and jurisdictional changes would occur as a direct or indirect result of Chesapeake Bay Gateways technical and financial assistance. These changes would generally enhance interpretation, conservation or public access consistent with Chesapeake Bay Program land use and education goals. The sum total of these changes would result in minor to moderate beneficial impacts watershed-wide, given the number of Chesapeake Bay Gateways.

The NPS, in partnership with other entities, would create two Chesapeake Bay interpretive centers in proximity to the Bay. The interpretive centers would be developed within either existing structures or new construction (new or expanded structure). A minor, localized change in land use or jurisdictional boundaries is possible under either scenario. However, the alternative anticipates the two interpretive centers would be placed in

previously developed or urbanized area already subject to human disruptions, therefore minimizing impacts to important resource lands.

# Alternative C - Chesapeake Bay Estuary National Park

The core goal of the estuarine National Park would be to conserve, protect, and restore the estuarine environment and natural resources in the park as a high quality natural system. Public ownership or management would be most compatible with this goal, whereas consumptive, commercial uses would be less so. Under this alternative, limited public lands and extensive public waters would be required for the park, interpretive center and public access sites. There would be a conversion of land use designations and changes in jurisdictional boundaries. Generally, the alternative presumes that any existing public land and water resource management entities within the park would continue to have a key role in managing those resources, limiting jurisdictional changes to some degree. The impact to land use would generally be presumed to be beneficial to achieving several categories of Chesapeake Bay Program commitments. Conversions for visitor uses would be either beneficial or adverse, depending on the site design, surrounding site characteristics, and size and location of the park.

The NPS acquires lands or interests in land when authorized to do so by an act of Congress establishing a unit of the National Park System. There is no single statute authorizing land acquisition that is applicable system-wide, and park-specific legislation varies widely in setting detailed parameters for land acquisition. Additional study and planning is always required to guide land acquisition if and when it is legislatively authorized. The NPS land acquisition and protection process would comply with all applicable legislation, Congressional guidelines, Executive Orders, and Department of Interior policies, and will be in accordance with the NPS Management Policies 2001 (NPS, 2000), Section 3.5 Boundary Adjustments, Section 3.6 Land Acquisition and Section 3.7 Land Acquisition Funding.

### Alternative D - A Chesapeake Bay National Reserve

A representative reserve area would include resources typical of the Bay's aquatic, rural, maritime, and agricultural heritage. This alternative depends highly on both the continuation of traditional private economic uses such as fishing, agriculture and forestry and on a vital and engaged partnership among local, state, and federal governments and the private sector. The NPS would not acquire lands outright, but rather provide matching grants to the state(s) for purchases of development rights on sensitive resource lands or carry out a purchase of development rights program for willing sellers when matched by equal funding from another non-federal partner. A limited transfer in property rights would occur on some lands, but would be expected to have negligible or minor impacts on existing land use designations and changes to jurisdictional boundaries, as the goal would be to continue and sustain traditional uses. The degree of the impact is dependent on existing conditions but it is expected that the impact would be beneficial within the reserve, contributing to Chesapeake Bay Program land use commitments.

The potential impacts associated with the development of an interpretive/orientation center on land use or jurisdictional boundaries

would be the same as described for Alternative C, and would be dependent on whether or not land acquisition is conducted. It is possible that there would be no impact on land use or changes in jurisdictional boundaries if the NPS, in partnership with state or local government, leased or co-occupied publicly-owned facilities for the interpretive center.

# Alternative E – Chesapeake Bay Watershed National Ecological and Cultural Preserve

The potential impact on jurisdictional boundaries for the creation of a national preserve and construction and use of a primary interpretive center would be similar to that described in Alternative D.

## **Population**

## Methodology

The study team focused on potential changes to the environment that may influence population, such as development, and programs that may trigger increased jobs or economic development or result in displacements. For this programmatic study, the impacts discussed are mostly qualitative because the alternatives are conceptual.

#### Alternative A - No Action

Under the No Action Alternative, there would be no changes in population because maintaining the existing Gateways Network through 2008 would not likely affect visitation levels or the economy to the degree that would result in a change in local or watershed-wide population.

#### Alternative B - An Enhanced Chesapeake Bay Gateways Network

A permanent and enhanced Chesapeake Bay Gateways Network would be expected to affect visitation levels and the economy as described under the visitor use section below. However, given the existing overall high levels of visitation and population in the Chesapeake Bay watershed, it is likely the incremental increases in visitation would have only a negligible or minor impact on population. It is also unlikely that the two visitor centers would result in the displacements or have any effect on existing population levels.

### Alternative C – Chesapeake Bay Estuary National Park

Typically, national parks encompass a large public land area. In this alternative, the great bulk of the park would be water based; moreover, a relatively undeveloped area would be required to meet the intended resource characteristics. Consequently, no reduction in population would be expected to occur as a result of the park. In contrast, national parks can attract a large numbers of visitors resulting in an increased demand for park staff and concession services. This demand can result in added jobs and an increase in population to the local area. The change in population is dependent on the level of visitation. The impact is expected to be minor, again because the park will be mainly water based with only limited land to provide access to the Bay.

## Alternative D - A Chesapeake Bay National Reserve

This alternative depends highly on both the continuation of traditional private economic uses such as fishing, agriculture and forestry and on a vital and sustained population to support the traditional economies. A limited transfer in property rights would occur on some lands, but would be expected to have negligible or minor impacts on population, as the goal would be to continue and sustain traditional uses and lifestyles. The visitation for the reserve would not be expected to have more than a negligible effect on population. However, the reserve may attract some residents and businesses, possibly resulting in a relatively small change in worker and resident population. There would not be the level of change in the economy that would cause either a significant increase or decrease in local population to meet the employment demand. Landscape conservation measures would limit sprawl development, further mitigating changes in population.

# Alternative E – Chesapeake Bay Watershed National Ecological and Cultural Preserve

This alternative depends highly on both the continuation of traditional private economic uses and lifestyles and the continued and enhanced stewardship of the land and water. A limited transfer in property rights would occur on some lands, but would be expected to have negligible or minor impacts on population, as the goal would be to continue existing land uses but focus on watershed conservation and stewardship. The visitation for the preserve would not be expected to have more than a negligible effect on population. There would not be the level of change in the economy that would cause either a significant increase or decrease in local population to meet the employment demand. Landscape conservation measures would limit sprawl development, further mitigating changes in population.

# **Economy**

## Methodology

For the economic impact assessment, the study team focused on changes to the economy from increased visitation/tourism, new programs or policies, and NPS capital and operational investments. For this programmatic study, the impacts discussed are qualitative because the alternatives are conceptual and the level of visitation is subject to several variables. Typically, impacts on the economy associated with new park units or changes in the NPS designation are dependent on the levels of visitation, percentage of overnight stays, average visitor spending, and existing economic conditions of the local area – none of which have been identified at this stage of the study. Prior to implementation of any of the alternatives, more detailed evaluation of the potential economic impact to the local economy would be considered in the decision-making process.

#### Alternative A - No Action

Under the No Action Alternative, the NPS would continue coordination of the Gateways Network through 2008. Use of the Network by visitors is expected to increase as the Network becomes more well-known. This would lead to minor to moderate, beneficial impacts to the localities around Gateways. However, if the Network is not continued past 2008, a long-term, adverse impact to the economy would occur from the loss of coordinated

joint marketing and promotions and other services that exist for the 140+ Gateway Network sites.

The NPS would maintain an annual matching grants program to assist designated Gateways in improving interpretation, public access, and conservation restoration through 2008. The continuation of the grants program has a minor, long-term, beneficial impact to the local communities that use the grants for financial assistance. The annual matching program has beneficial impacts throughout the watershed.

## Alternative B – An Enhanced Chesapeake Bay Gateways Network

Under this alternative, the NPS would permanently continue its role in coordinating the Chesapeake Bay Gateways Network. The enhanced Gateways Network would be expected to attract and disperse additional visitors to the area over time. The increased visitation would ultimately have long-term, direct and indirect, beneficial impacts on the local economy. Promotional and educational services offered in the two interpretive centers would be expected to draw added visitation and then direct visitors to other Bay Gateways, thus generating direct and indirect tourism benefits for the community. The degree of the impact would be expected to be long-term, moderate and bay-wide, but is largely dependent on increased visitation levels and the location of the two centers.

Under Alternative B, the NPS would offer added financial assistance through the annual matching grants program to assist designated Gateways in improving interpretation, public access and conservation and restoration, including new grants for conserving Bay landscapes. The expanded program would be expected to have a moderate, beneficial impact to the economy through the financial assistance. The economic benefits would be distributed throughout the entire watershed.

The NPS would provide matching funds up to three million dollars for the creation of each of the two Chesapeake Bay interpretive centers. When considering the size of the Bay, its resources, and existing efforts to restore the bay, this expenditure by the NPS would be minor. The upfront capital investment for the two interpretive centers and associated improvements would have a beneficial impact to the local community and any operational expenditures would have a long-term, beneficial impact on the local community. The degree of the impact would be expected to be minor but is dependent on the existing economic conditions. Lastly, if a public entity were to acquire private land for the interpretive centers, there would be the potential for the loss of tax revenue for the local jurisdiction. This adverse impact would be negligible.

#### Alternative C – Chesapeake Bay Estuary National Park

The estuarine park would have a long-term, beneficial impact on economics attributed to additional visitors to the Chesapeake Bay area. The designation as a NPS unit signals the significance and likely character of the potential visitor's experience, and thus may alone have a substantial effect on the level of visitation. It may have substantial effects on local visitation because the change in designation may imply (real or perceived) differences in availability of services, promotional expenditures by the NPS, allowable land uses, or

uniquely attractive features of the site (Colorado State University, 2001). The increased visitation/tourism would have a direct impact through increased patronage to local business resulting in additional revenue and an indirect impact to other business that may provide services or supplies to those businesses. The benefits would be moderate and affect the business communities who service the area surrounding the park.

The park may also have an adverse impact on the area economy because of limits placed on commercial fishing within the park. The degree of this impact would vary depending on the location, existing use and size of the park, though the impact to the overall economy would be expected to be limited. If land is acquired by the NPS, a potential loss of tax revenue for the local jurisdiction is anticipated. This adverse impact is expected to be minor because the land acquired would be expected to small, as in this concept the park would be mostly water.

The NPS would develop and operate a park interpretive/orientation center. When considering the size of the bay, its resources, and existing efforts to restore the bay, this expenditure by the NPS would be minor. The upfront capital investment for the interpretive center and associated facilities and improvements would have a beneficial impact to the local community and operational expenditure would have a long-term, beneficial impact on the local community. The degree of the impact would be expected to be minor but is dependent on the existing economic conditions. If a public entity were to acquire private land for the interpretive center, there would be the potential for the loss of tax revenue for the local jurisdiction. This adverse impact would be negligible.

# Alternative D - A Chesapeake Bay National Reserve

Under this alternative, a national reserve would be established to protect and sustain the Bay's maritime, rural, and agricultural heritage. The designation as a NPS unit signals the significance and likely character of the potential visitor's experience, and thus may alone have a substantial effect on the level of visitation. It may have substantial effects on local visitation because the change in designation may imply (real or perceived) differences in availability of services, promotional expenditures by the NPS, or uniquely attractive features of the site (Colorado State University, 2001). The increased visitation/tourism would have a direct impact through increased patronage to local business resulting in additional revenue and an indirect impact to other business that may provide services or supplies to those businesses. The degree of the beneficial impact would be expected to be long-term and moderate but is dependent on the existing economic conditions.

One unique attribute of this alternative is the emphasis on protecting traditional resource dependent activities (commercial fishing, crabbing, oystering, agriculture and forestry) from adverse development pressures. The reserve would create a purchase of development rights (PDR) program aimed at protecting resource lands and uses. This would have a moderate, beneficial impact to these industries within the reserve, though it may limit the economic growth of an area from other forms of development. The purchase of development rights would also limit future growth of local jurisdiction tax revenues as the properties would not be converted to more development-

intensive uses. This adverse impact is expected to be localized and minor due to the pattern of PDR lands and the fact that such lands do remain on the tax rolls.

The reserve would include an interpretive/orientation center, with NPS matching funds provided for its development. When considering the size of the bay, its resources, and existing efforts to restore the bay, this expenditure by the NPS would be minor. The upfront capital investment for the interpretive center and associated facilities and improvements would have a beneficial impact to the local community and operational expenditures would have a long-term, beneficial impact on the local community. The degree of the impact would be expected to be minor but is dependent on the existing economic conditions. If a public entity were to acquire private land for the interpretive center, there would be the potential for the loss of tax revenue for the local jurisdiction. This adverse impact would be negligible.

# Alternative E – Chesapeake Bay Watershed National Ecological and Cultural Preserve

This alternative would create a NPS unit focused on conserving and restoring a Bay tributary ecosystem so that human uses are in optimal balance with the natural process to conserve the Bay resources and values for future generations. The designation as a NPS Unit signals the significance and likely character of the potential visitor's experience, and thus may alone have a substantial effect on the level of visitation. It may have substantial effects on local visitation because the change in designation may imply (real or perceived) differences in availability of services, promotional expenditures by the NPS, or uniquely attractive features of the site (Colorado State University, 2001). The increased visitation/tourism would have a direct impact through increased patronage to local business resulting in additional revenue and an indirect impact to other business that may provide services or supplies to those businesses. The degree of the impact is dependent on the existing economic conditions; however, the benefits are expected to be long-term, watershed-wide, and moderate.

In this alternative, economic uses within the preserve landscape would continue; however, best management practices would be developed and implemented to protect water quality and the range of ecosystems. A range of options and incentives to encourage the use of best management practices might be employed (such as tax incentives, technical assistance, local zoning, and design reviews and purchase or transfer of development rights) depending on the unique characteristics of the area. The degree of economic impact is largely dependent on the site-specific economic conditions, types of economic uses within the preserve, and types of management practices applied.

If lands or interests in lands were acquired along the riparian corridor by a public entity, there would be a potential loss of tax revenue for the local jurisdiction. This adverse impact is expected to be localized and minor due to the limited role of outright land acquisition and the fact that any purchase of development rights programs leaves the underlying lands on the tax rolls.

The reserve would include an interpretive/orientation center, with NPS matching funds provided for its development. When considering the size of the bay, its resources, and existing efforts to restore the bay, this expenditure by the NPS would be minor. The upfront capital investment for the interpretive center and associated facilities and improvements would have a beneficial impact to the local community and operational expenditures would have a long-term, beneficial impact on the local community. The degree of the impact would be expected to be minor but is dependent on the existing economic conditions. If a public entity were to acquire private land for the interpretive center, there would be the potential for the loss of tax revenue for the local jurisdiction. This adverse impact would be negligible.

#### **Parks and Recreation**

### Methodology

In the impact assessment for parks and recreation, the study team focused on changes to the levels of recreation activities and experiences at nearby parks or recreational areas from the creation of a new park unit or implementation of a new program or policy. The NPS also considered the physical attributes associated with any new development plans such as the construction of an interpretive center and anticipated visitor uses typical of each park unit. For this programmatic study, the impacts discussed are mostly qualitative because the alternatives are conceptual. The intensity of impact is mostly dependent on the future visitation, location of park unit in the context of other parks, and available recreational activities, which have not yet been identified.

#### Alternative A - No Action

Under the No Action Alternative, the NPS would continue to manage existing units of the National Park System and to coordinate the Chesapeake Bay Gateways Network through 2008. There would be minor to major, shortterm, beneficial impacts to parks and recreation sites participating in the Network as a result of the Network's technical and financial assistance programs. If the Gateways Network is not reauthorized and funded subsequent to 2008, there would be a moderate to major, long-term, adverse impact to parks and recreation sites previously participating in the Network or potentially eligible to do so.

#### Alternative B – An Enhanced Chesapeake Bay Gateways Network

Under this alternative, the NPS would permanently continue its role in coordinating the Chesapeake Bay Gateways Network, which currently includes more than 140 parks and recreation sites for experiencing the Bay and its watershed. The NPS would offer added financial assistance through the annual matching grants program to assist designated Gateways in improving interpretation, public access and conservation and restoration, including new grants for conserving Bay landscapes. The impacts to parks and recreation sites in the Gateways Network would range from minor to major, long-term, beneficial effects due to Gateways Network influenced improvements. For instance, educational resources at Gateway sites would be improved causing a beneficial impact because the visitor experience would be enhanced, making the visit more enjoyable or rewarding. Longterm, these improvements would increase visitation to Gateway sites.

Through the creation of two Chesapeake Bay interpretive centers, the National Park Service, in partnership with other government entities, would provide visitors with two centralized locations to introduce a multitude of Bay themes and resources. Promotional and educational services offered in the centers would be expected to draw added visitation and then direct visitors to other Bay Gateways. The degree of the impact would be expected to be long-term, moderate and bay-wide, but is largely dependent on increased visitation levels and the location of the two centers.

## Alternative C - Chesapeake Bay Estuary National Park

The creation of an estuarine National Park would provide visitors with a park focused on interpreting the Chesapeake Bay as an outstanding natural system. Through a land-based interpretive/orientation center, the NPS would provide interpretive educational materials stressing the importance and influences of human interaction on the Bay's health. The park would provide visitors with access to the Chesapeake Bay. Group tours, planned itineraries, and established programs would provide visitors with a variety of experiences on the open water, at islands, marshes, or along the shore ecosystem. Uses such as sailing, boating, kayaking, hiking and picnicking would be available to visitors. As a result of the visitor experience and increased access to the Bay, there would be a major, long-term, beneficial impact to the availability of Chesapeake Bay parks and recreation sites.

Implementation of this alternative may have a negative impact on some existing parks should visitation be taken away from other parks in the area; conversely, the impact would be beneficial if visitation to parks overall rose from an increase of visitors to the entire Chesapeake Bay area.

#### Alternative D - A Chesapeake Bay National Reserve

Implementation of a Chesapeake Bay National Reserve alternative would provide visitors with a reserve focused on protecting and sustaining the Bay's maritime, rural, and agricultural heritage. Through a land-based interpretive center and programs, the reserve would provide visitors with a variety of experiences such as enjoying an open water setting, experiencing a maritime or rural community, visiting significant heritage sites, and learning about the reserve's working landscape. Because of the enhanced visitor experience, there would be a moderate, long-term, beneficial impact to parks and recreation. The impact would be localized to the area of the reserve.

Under this alternative, existing parks and recreation sites would likely be encompassed within the national reserve designation. This designation alone may increase visitation at the existing parks, as a certain quality of resources and visitor experiences are signaled by the association with the NPS arrowhead. In contrast, the creation of a reserve would have a negative impact on parks and recreation sites in the surrounding area should visitation be drawn away from them and funneled to the reserve. However, the actual type and degree of impact is highly dependent on the location of any potential reserve, something that is not known at this time.

# Alternative E - Chesapeake Bay Watershed National Ecological and Cultural Preserve

The core goal of a Chesapeake Bay Watershed National Ecological and Cultural Preserve would be to conserve and restore the tributary ecosystem so that human uses are in optimal balance with the natural processes in order to conserve the Bay resources and values for future generations. The preserve would provide opportunities for visitors to experience and learn about the transition of natural areas from the headwaters to the Bay and how human actions affect the health of the Bay. At an interpretive center, visitors would be introduced to watershed themes and would orient themselves to a series of experiences and sites throughout the preserve. Group tours, planned itineraries, and established programs would provide visitors with a variety of experiences along the riparian corridor. As a result of the visitor experience, there would be a moderate, long-term, beneficial impact to parks and recreation.

Under this alternative, existing parks and recreation sites would likely be encompassed within the national reserve designation. This designation alone may increase visitation at the existing parks, as a certain quality of resources and visitor experiences are signaled by the association with the NPS arrowhead. In contrast, the creation of a preserve would have a negative impact on parks and recreation sites in the surrounding area should visitation be drawn away from them and drawn only to the reserve. However, the actual type and degree of impact is highly dependent on the location of any potential preserve, something that is not known at this time.

# **Transportation**

#### Methodology

Regarding the impact assessment for transportation, the study team focused on the physical impacts associated with any new development plans, such as the construction of an interpretive center and anticipated visitor uses typical of each park unit. For this programmatic study, the impacts discussed are qualitative because the alternatives are conceptual. The intensity of impact is dependent on the future visitation and existing site characteristics, which have not been identified

# Definition of Intensity Levels

Analyses of the potential intensity of transportation (i.e., traffic) were derived from the available information for the Chesapeake Bay region, and the professional judgment of the study team. Definitions for the thresholds of change for the intensity of impacts on transportation are as follows:

- Negligible Traffic would not be affected, or the effects would be at the lower levels of detection and would not have an appreciable effect on traffic flow. There would be no changes in the level of service.
- Minor The effect would be detectable, but would be of a magnitude that would not have an appreciable effect on traffic flow. There would be no noticeable changes in the traffic congestion or level of service. If mitigation was needed to offset adverse effects, it would be simple and likely successful.
- Moderate The effects would be readily apparent, and would result in a substantial change in traffic flow patterns, congestion, and/or level of

- service, in a manner noticeable to the public. Mitigation would be necessary to offset adverse effects and would likely be successful.
- Major The effects would be severe or beneficial, readily apparent, and
  would result in a substantial change in traffic flow in a manner noticeable
  to the public and markedly different from the current traffic flow
  patterns and levels of service. Mitigation measures to offset adverse
  effect would be needed and extensive, and their success would not be
  guaranteed.

#### Alternative A - No Action

Under the No Action Alternative, there may be some local, minor impacts to transportation in the vicinity of some existing Chesapeake Bay Gateways, due to possible increases in visitation. These impacts would be moderated by the limited duration of the Gateways Network, which expires in 2008.

### Alternative B - An Enhanced Chesapeake Bay Gateways Network

Through the creation of two Chesapeake Bay interpretive centers, this alternative would attract visitors to two centralized locations at opposite ends of the Bay. The centers are intended for high-traffic volume areas with existing transportation systems capable of supporting increased visitation. However, increased visitation would have a localized, minor to moderate adverse impact because the increased number of visitors would add traffic to nearby transportation routes. Secondly, the increased visitation to existing Gateway sites would increase traffic demands at some sites. Because the traffic would be dispersed over the 140+ sites, the adverse impact would be negligible on a regional scale. The degree of impact is largely dependent on the visitation levels, site characteristics, and site design, which have not been identified. The impacts would be minimized to the extent practical in accordance with the National Park Service's Management Policies 2001 (NPS, 2000), Director's Order #2 Park Planning (NPS, 1998), and Director's Order #12 (Conservation Planning, Environmental Impact Analysis, and Decision-Making) (NPS, 2002b).

# Alternative C - Chesapeake Bay Estuary National Park

The creation of an estuarine National Park would have anywhere from a minor to major adverse impact on transportation, due to an increased number of visitors adding traffic to nearby transportation routes. The degree of impact is largely dependent on the visitation levels, site characteristics and site design, which have not been identified. The impacts would be minimized to the extent practical in accordance with the National Park Service's Management Policies 2001 (NPS, 2000), Director's Order #2 Park Planning (NPS, 1998), and Director's Order #12 (Conservation Planning, Environmental Impact Analysis, and Decision-Making) (NPS, 2002b).

#### Alternative D - A Chesapeake Bay National Reserve

Implementation of the Chesapeake Bay National Reserve Alternative would have a minor to moderate, long-term, adverse impact on transportation. The reserve would attract additional recreational visitors to the area adding traffic on nearby transportation routes. The impact would be localized to areas surrounding the interpretive center, other heritage sites and tour routes. The degree of impact is largely dependent on the site characteristics and design, which have not been identified. The impacts would be minimized to the

extent practical in accordance with the National Park Service's Management Policies 2001 (NPS, 2000), Director's Order #2 Park Planning (NPS, 1998), and Director's Order #12 (Conservation Planning, Environmental Impact Analysis, and Decision-Making) (NPS, 2002b).

## Alternative E - Chesapeake Bay Watershed National Ecological and Cultural Preserve

Implementation of the Chesapeake Bay Watershed National Ecological and Cultural Preserve Alternative would have a minor to moderate, long-term, adverse impact on transportation. The preserve would attract additional recreational visitors to the area adding traffic to nearby transportation routes. The impact would be localized to areas surrounding the interpretive center, tour routes, and demonstration sites. The degree of impact is largely dependent on the site characteristics and design, which have not been identified. The impacts would be minimized to the extent practical in accordance with the NPS Management Policies 2001 (NPS, 2000), Director's Order #2 Park Planning (NPS, 1998), and Director's Order #12 (Conservation Planning, Environmental Impact Analysis, and Decision-Making) (NPS. 2002b).

# Visitor Experience and Use

## Methodology

For the impact assessment for visitor experience and use, the study team focused on recreational, educational and interpretive experiences for each park unit or program. The NPS also considered the physical attributes conceptualized for each alternative, such as the interpretive center. In addition, anticipated visitor uses typical of each park unit were considered. For this programmatic study, the impacts discussed are qualitative because the alternatives are conceptual. The intensity of impact is dependent on the size of the park unit and resources when compared to the visitation levels and existing site characteristics, which have not been identified.

#### Definition of Intensity Levels

The thresholds of change for the intensity of impacts on visitor experience and use are defined as follows:

- Negligible The impact would be a change that would not be perceptible or would be barely perceptible by most visitors.
- Minor The impact would change a few visitors' experiences, which would be noticeable, but would result in little distraction or improvements in the quality of the experience.
- Moderate The impact would change a large number of visitors' experiences that would result in a noticeable decrease or improvement in the quality of the experience. This would be indicated by a temporary change in frustration level or inconvenience.
- Major The impact has a substantial improvement in many visitors' experiences or a severe drop in the quality of many visitors' experiences. such as the addition or elimination of a recreational opportunity or a permanent change to an area.

#### Alternative A – No Action

Under Alternative A, the Chesapeake Bay Gateways Networks would continue to represent the broadest geographic and thematic system of Bayrelated sites in the watershed, but only through 2008. During this period, the Gateways Network would continue to promote the 140+ designated Gateways and provide financial assistance for Chesapeake Bay interpretive services and products, thereby helping visitors learn more about how to explore the diverse range of themes, places, and geography existing in the Chesapeake Bay. If the program were not sustained, a moderate, long-term, watershed-wide adverse impact on visitor experience and use would occur because of the loss of the Gateways Network's important role in providing promotional services, interpretive products, and financial assistance to the Gateways members.

Alternative B – An Enhanced Chesapeake Bay Gateways Network In this alternative the National Park Service would permanently continue its role in coordinating the Chesapeake Bay Gateways Network and its various programs. Two visitor/orientation centers would also be developed to introduce visitors to the multitude of Chesapeake Bay themes, and resources, helping visitors to explore these themes and resources at existing Gateway sites. This combination of enhancements would result in a moderate to major, long-term, watershed-wide, beneficial impact on visitor experiences in the Bay region through enhanced interpretation and visitor experiences. At individual Gateway sites, the intensity of impacts would range from minor to major depending on the sites' use of Network technical and financial assistance services.

# Alternative C – Chesapeake Bay Estuary National Park

The creation of an estuarine National Park would provide visitors with a park focused on interpreting the Chesapeake Bay as an outstanding natural system. Through a land-based interpretive center, the NPS would provide visitors with interpretive and educational materials stressing the importance and influences of human interaction on the Bay's health. The national park would provide visitors with direct access to the Bay and locations representing different Bay natural areas, from island environments to shoreline ecosystems. Group tours, planned itineraries, and established programs would provide visitors with a variety of experiences on the open water, at islands, marshes, or along the shore ecosystem. In addition, uses such as boating, kayaking, hiking, sailing, and picnicking would attract visitors and enhance the overall visitor experience. The magnitude of the impact on visitor use would be dependent on the park's location and accessibility. In general, national parks have high recreational visits; therefore, Alternative C would be expected to have a moderate to major, long-term, beneficial impact on the visitor experience because of added recreational activities and interpretive programs available to the public. The context of the impact would be local and regional.

#### Alternative D - A Chesapeake Bay National Reserve

The creation of a Chesapeake Bay National Reserve would provide visitors with a reserve focused on protecting and sustaining the Bay's maritime, rural, and agricultural heritage. Through a land based interpretive center and programming, the reserve would provide visitors with interpretive and

educational materials stressing the Bay's heritage. Group tours, planned itineraries, and established programs would provide visitors with a variety of experiences on the open water, in the community, at significant heritage sites. and on the reserve working landscape. In general, the creation of a national reserve would have a moderate, long-term, beneficial impact on the visitor experience. The context of the impact would be local and regional. Similar to the national park, the magnitude of the impact on visitor use would be dependent on the reserve's location and accessibility to major transportation routes.

# Alternative E - Chesapeake Bay Watershed National Ecological and Cultural Preserve

The core goal of a Chesapeake Bay Watershed National Ecological and Cultural Preserve would be to conserve and restore the tributary ecosystem so that human uses are in optimal balance with the natural process to conserve the Bay resources and values for future generations. The NPS and its partners, through a primary interpretive/ education center, would provide opportunities for visitors to experience and learn about the transition of natural areas from the headwaters to the Bay and how human actions affect the health of the Bay. At the interpretive center, visitors would be introduced to watershed themes and would orient themselves to a series of experiences and sites throughout the preserve.

Group tours, planned itineraries, and established programs would provide visitors with a variety of experiences along the riparian corridor. In general, the creation of a national preserve would have a moderate, long-term, beneficial impact. The context of the impact would be local and regional. Similar to the other alternatives, the magnitude of the impact on visitor use would be dependent on the preserve's location and accessibility of the preserve and its interpretive center to major transportation routes.

#### CUMULATIVE IMPACTS

Impacts on the environment can result from the incremental impact of actions when added to other past, present, and reasonably foreseeable future actions, regardless of what agency or person undertakes such actions. Cumulative impacts can also result from individually minor, but collectively significant, actions taking place over a period of time. For this programmatic analysis, the NPS defined a broad geographic area (the Chesapeake Bay watershed) to be analyzed for most impact topics. (Air quality considers the entire airshed.) Regional plans, policies, and program were considered. Sitespecific projects were not identified or studied for this programmatic analysis because the location of each alternative has not been identified. Site-specific plans and projects will be considered and documented in future planning studies by the NPS prior to implementation. The cumulative impact section for this study focused on the potential cumulative impacts to other regional initiatives such as the goals outlined in the Chesapeake Bay Agreement, county and state watershed management planning, wetland protections programs, and state wetlands programs.

The National Park Service considered cumulative impacts for each impact topic; however, because the cumulative impacts are similar for many of the impact topics, the cumulative impacts are briefly summarized in this section.

# Other Chesapeake or Regional Plans, Policies, and Programs

#### Chesapeake Bay Program

The Chesapeake Bay Program is a unique regional partnership that directs and conducts the restoration of the Chesapeake Bay. Since its inception in 1983, the Chesapeake Bay Program's highest priority has been the restoration of the Bay's living resources (finfish, shellfish, Bay grasses, and other aquatic life and wildlife). Improvements include fisheries and habitat restoration, recovery of Bay grasses, nutrient and toxic reduction, and significant advances in estuarine science.

## Chesapeake 2000 Agreement

In the 1987 Chesapeake Bay Agreement, the Executive Council set a goal to reduce the nutrients such as nitrogen and phosphorous entering the Bay by 40 percent by 2000. In 1992, the Bay Program partners agreed to continue the 40 percent reduction goal beyond 2000, as well as, to attack nutrients at their source; upstream in the Bay's tributaries. As a result, Pennsylvania, Maryland, Virginia, and the District of Columbia began developing tributary strategies to achieve nutrient reduction targets. On June 28, 2000, the Chesapeake Bay Program partners signed the new *Chesapeake 2000 agreement*, which will guide the next decade of restoration and protection efforts throughout the Bay watershed.

# State, County, and Municipal Wetlands and Watershed Programs

All the states within the watershed have agencies and programs dedicated to water quality and wetland protection, including special initiatives for the Chesapeake Bay. In addition, as a result of the initiative to reduce pollutants from entering the Bay, many counties and municipal governments within the watershed have developed or are developing watershed management plans and programs. From the Chesapeake Bay Preservation Act (VA) and Critical Areas Act (MD), most counties have created development ordinances that establish riparian buffer requirements and limit development in the Chesapeake Bay critical areas.

#### Urban Sprawl and Development

The relationship between population growth and sprawl can be quantified by comparing rates of change in population and urbanized land area over the same time period. Based on U.S. Census Bureau Data from 1970 to 1990, increased per capita land consumption was associated with about 55 percent of the sprawl in the watershed and population growth was associated with about 45 percent of the sprawl, although there is great variation among the "Urbanized Areas" of the Chesapeake Bay watershed. These numbers demonstrate that population growth and increased land consumption are expanding "Urbanized Areas" in the watershed (Sprawl City, 2003). The land development associated with urban sprawl such as wastewater generation, groundwater use, and land clearing generally has an adverse impact on land use, aquatic resources, terrestrial resources, and cultural resources. This adverse impact comes from issues such as land clearing activities, the creation of additional impervious surfaces, etc. A number of the states have "Smart Growth" initiatives, which are focused on reducing urban sprawl and revitalizing existing urban areas.

# Agriculture and Forestry

In the 1960s and 1970s, there were significant changes in farming practices with the heavy use of chemical fertilizers and pesticides. These practices had a significant impact on Bay grasses and other submerged aquatic vegetation (Maryland Marine Notes, Volume 18 May-August 2001). Significant steps have been taken over the last decade through regulations and incentive programs to reduce nutrient and chemical runoff associated with farming operations, and to reduce land clearing and sedimentation associated with forestry. Programs, such as the United States Department of Agriculture's Conservation Restoration Enhancement Program, provide monetary incentives for farmers to take land out of production, and use the land to construct wetlands or riparian forests, and/or place the land into conservation easements. Past farming and forestry practices have had a major adverse impact on the Bay. Current and future agriculture and forestry programs can potentially have a beneficial impact through sustainable practices and restoration initiatives.

# Other Plans, Programs, and Policies

A vast number of other plans, programs, and policies exist within the watershed, which have not been listed above. The NPS would consider more site-specific plans and programs prior to implementation of any of the alternatives as part of another study.

# **Cumulative Impact Analysis**

The protection, conservation, and restoration efforts described under Alternatives A, B, C, D, and E, when added to other environmental protection programs, such as the wetlands protection programs implemented by the U.S. Army Corps of Engineers, water quality control programs implemented by the states and the U.S. Environmental Protection Agency, and the Chesapeake Bay Program, would have a beneficial, long-term cumulative impact on aquatic resources, terrestrial resources, threatened and endangered species, air quality, and cultural resources within the region. The incremental change resulting from the implementation of Alternatives B, C, D, or E would be expected to be minor when combined with other federal and state programs. As a result, the cumulative impacts are anticipated to be minor.

Under Alternatives B, C, D, and E, the potential adverse impact from the construction of the interpretive center(s) and associated roads, parking, and facilities, when added to other past and future development associated with urban sprawl would have a long-term cumulative adverse impact to aquatic resources, terrestrial resources, threatened and endangered species, cultural resources, transportation, and ethnographic resources. The incremental change resulting from the implementation of Alternatives B, C, D, or E would be expected to be minor when combined with other federal and state programs. As a result, the cumulative impacts are anticipated to be minor.

The associated visitor use under Alternative B, C, D, and E, when added to urban sprawl and development, would have an adverse cumulative impact on natural resources, cultural resources, transportation, and socio-economics to the region. The incremental change resulting from the implementation of Alternatives B, C, D, or E would be expected to be minor when combined with other federal and state programs. As a result, the cumulative impacts are anticipated to be minor.

#### IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT OF RESOURCES

The National Park Service considered in the decision making process whether the alternative will have an irreversible or irretrievable commitment of resources. Resource in this case would refer to money and labor invested in the project, or more importantly, resources in the environment, such as threatened and endangered species, mature forest, prime farmlands, etc. Typically, these resources cannot be easily or readily replaced. In general, the irreversible and irretrievable commitment of resources for the concepts discussed in each alternative would include funding for the construction of the interpretive center(s) discussed in Alternatives B, C, D and E; land acquisition; and grants to increase financial and technical assistance.

#### IMPAIRMENT TO PARK RESOURCES

The National Park Service's Management Policies, 2001 (2000) require analysis of potential effects to determine whether actions would impair park resources. The fundamental purpose of the National Park System, established by the Organic Act and reaffirmed by the General Authorities Act, as amended, begins with a mandate to conserve park resources and values. Generally, environmental impact statements developed by the National Park Service assess the potential effects to the existing park's resources; however, in the case of this programmatic study, the specific park resources and boundaries have not been identified; therefore, this section is not applicable to the study.

	Alternative D	
	Altern	
	Afternative B	
filmpaetslby Alternativa	Alternative A	
Trable:16±11 Comparison to	Impact Topic	

Please Note: The Chesapeake Bay Special Resource Study is a programmatic study; therefore, the analysis was very qualitative. The project team determined the intensity levels throughout this document based on the professional judgment on a variety of factors which have not yet been determined (e.g. size and location, sist design, visitation levels, and local conditions). Thus in some instances, the degree of the impact is somewhat speculative and in some cases simply the profest team also assumed typical size conditions that might be assed on the designed for each alternative. The project team assumed typical size conditions that might be assed on the designed for each alternative. The project team also assumed that the National Park Service would minimize impacts to the designed to the national Park Service would conduct additional environmental manysis and Decision-Making (INS, 2002). By a particular alternative were to be selected for implementation, the National Park Service would conduct additional environmental manysis as a part of any management or development planning. This would here quantity impacts that are site specific in nature and determine appropriate mitigation measures if needed. In general, National Park Service designations and associated developments are typically—net positive—to the environmental measures if needed. In general, National Park Service designations and associated developments are typically—net positive—to the environmental manys and service designations and associated developments are typically—net positive—to the environmental manys.

## atural Environmen

Natural Environment					
Aquatic Resources	Through 2008, the Gateways Network would result in minor, short-term, watershed-wide, beneficial impacts to aquatic resources because of interpretive and financial assistance to existing Gateways. A long-term, indirect, adverse impact to the watershed would occur throughout the watershed if funding is not appropriated past 2008 and the Gateways Network program is not sustained.	A minor, indirect, long-term, beneficial impact would cocur to adulate resources shroughout the watershed because of the National Park Service's technical and financial assistance to designated Gateways, local communities and other organizations. The educational function of the interpretive centers would result in a minor to moderate, indirect, hong-term watershed-wide beneficial impact to adulatic resources. If the interpretive centers were constructed within an existing structure direct impacts to adulatic resources would be negligible. New construction of two centers and associated roads, parking, and support fabilities would have bedized, adverse impacts on nearty aquatic resources although it is expected that the centers would be developed in previously disturbed urban areas. Impacts from visitor use would be negligible.	The creation of a park would have a minor to modelate, long-larm, beneficial impact on aquatic resources throughout the portion of the Bay within the park boundaries because of the National Park Service's conservation and estoration efforts associated with the management of National Parks. The construction of the land-based interpretive construction of the land-based interpretive center and associated loads, parking, and facilities could have direct, local, adverse impacts on nearby adulatic resources. The increase in visitation could have an indirect, moderate, long-term, adverse impact on aquatic resources because of human adjustic resources because of human adjustic resources because of human adjustic resources because of human increased traffic or wave action from boat use.	A minor to moderate, localized, long-term, beherificial impact to aquatic resoluces would occur would likely occur as a result of comprehensive planning and site specific conservation measures, through frechnical and financial assistance to local communities for comprehensive planning and resource protection. Construction of an interpretive center within an existing structure would have negligible direct impacts to aquatic resources. New construction and associated to add parking, and facilities would have localized adverse impacts on nearby aquatic resources. Visitor use at the interpretive center and surrounding land could have a minor, long-term, adverse impact. An increase in the number of visitors to the area would have an indirect, minor, hong-term, adverse impact adverse impact because of minor human disruptions to the aquatic environment.	A moderate, tributary watershed-wide, fong- term beneficial impact to adustic resources would likely occur as a result of restoration, stewardship and land conservation efforts.  The interpretive programming would result in aminor to moderate, indirect, long-term tributary watershed-wide beneficial impact to aquafic resources. Construction of an interpretive center within an existing structure would have negligible or beneficial direct impacts as remediation measures would be incorporated into the design. New construction and associated roads, parking, and facilities would have localized adverse impacts on nearby aquafic resources. Vistor use at the interpretive center and surrounding land could have a minor, long- term, localized, adverse impact. An increase in the number of visitors to the area would have a minor, localized, long-term, adverse
Terrestrial Resources	Through 2008, the Gateways Network would result in minor, short-term, beneficial impacts to terrestrial resources throughout the watershed because of interpretive and financial assistance to existing Cateways. Minor, long-term, indired, adverse impacts would occur throughout the watershed if funding is not appropriated past 2008 and the Gateways Network program is not stystained.	An indirect, long-term, beneficial impact would occur to tenestral resources throughout the watershed because of the National Park Service's technical and financial assistance to designated Gateways, local communities and other organizations. The educational function of the Innerpretive centers would result in a minor to moderate, indirect, long-term, watershedwide beneficial impact to aquatic resources. If the interpretive centers were constructed within an existing structure, direct impacts of to the inserpretive centers would be negligible. New construction of two Chesapeake Bay interpretive centers and associated roads, parking, and support facilities would have long-term adverse impacts on terrestrial resources on and ediacent to the construction sites. Visitor use at the centers and surrounding land would slot have a minor, localized, long-term, adverse impact due to habitat disturbances. However, it is expected the construction in previously disturbances.	The creation of a park would have a minor, long-term, beneficial impact on terrestrial resources at the park and surrounding areas because of the National Park Service's conservation and restoration efforts associated with the management of National Parks. Construction of an interpretive center would be expected to have minor to moderate, localized, adverse minor, long-term, localized, adverse impact. An increased number of visitors to the area would have an indirect, moderate, long-term, during due to habitat disturbances.	The creation of a reserve would have a moderate Jong-tern. Denficial impact to terrestrial resources as a result of comprehensive planning and site-specific conservation of sensitive natural resource sites, through technical and financial existrance to local communities for comprehensive planning. The beneficial impact is likely to be moderate locally while having a minor impact to the watershed as a whole. If the construction of the interpretive center occurs within an existing structure, direct impacts to terrestrial resources would be negligible. New construction of a facilities would have foralized, adverse impacts on nearby terrestrial resources. Visitor use at the interpretive center and surrounding land would have to more Justiced, adverse impact. An increase in the number of visitors to the area would have an indirect, minor, sing-term. Justiced, adverse impact. An increase in the number of visitors to the area would have an indirect, minor, sing-term. Anderes impact the nuter or babitat	The creation of a preserve would have a regional, Inogetim, moderate, beneficial impact on terestrial resources a result of restoration, stewardship and land conservation efforts, through technical and financial assistance within the watershed. If the interpretate centers were constructed within an existing structure, direct impacts to terestrial resources would be negligible, or beneficial, as remediation measures would be incorporated into the design. New construction of a center and associated coast, parking, and facilities would have localized, adverse impacts on nearby terestrial resources. Visitiou use at the interpretive center and surrounding land would have a minor, localized, long-term, adverse impact. An increase in the number of visitors to the area would have an indirect, docalized, minor, long-term, adverse impact.

Nable:1621 Comparison of Impacts by Alternative	timpacts/by/Alternative	Alternative R	Alternative	Altemative D	Alternative F
Threatened, Endangered, and Rare Species and Natural Communities	Through 2008, the Gateways Network would result in milior, short-tern, beneficial impacts to protected species natural communities because of interpretive and dimarcal assistance to existing Gateways. A long-tern, indirect, adverse impact would occur if funding is not appropriated past 2008 and the Gateways Network program is not sustained.	An indirect, long-term, beneficial impact would occur to threatened, tendangered, and rail occur to threatened, tendangered, and rail species and natural communities throughout the watersted because of the National Park. Service's ferbincial and financial assistance to designated Gateways, local communities and other organizations. The educational function of the interpute centers would result in a minor to moderate, indirect, long-term, watershed, and endangered species, if the interpretive centers were developed within existing structures direct impacts to threatened, and raire species would be negligible. New construction of two Chesapeake Bay interpretive centers and associated roads, parking, and support facilities and increased visitation would have a minor, long-term, adverse impacts. However, it is expected that the centers would be developed in preyously disturbed urban areas.	The creation of a park would have a minor, long-term, beneficial impact on protected species and habitals at the park and surrounding areas because of concervation and restoration efforts associated with the management of hational Parks. The construction of the interpretive center and associated roads and parking would have an adverse impact. The degree of the impact would be dependent on existing conditions. Visitor use and increased visitation would have a minor, localized, long-term, adverse impact the arrivery areas.	The creation of a reserve would have a minot to moderate, long-term, regional, beneficial impact to threatened, endangered, and rare species and natural communities as a result of conservation of sensitive natural resource sites, through the technical and financial assistance to local communities for comprehensive planning. If the interpretive centers were developed within existing structures direct impacts to threatened, endangered, and rare species would be regligible. The construction of the interpretive center and associated roads and parking would have an adverse impact on RTE species present impact would be construction site. The degree of the impact would be dependent on existing conditions. Visitor use at the interpretive center and surrounding land would have a minor, long-term, adverse impact.	A preserve would have a minor to moderate, long-term, regional, beneficial impact on threatened, endangered, and rare species and natural communities. If the interpretive centers were developed within existing structures direct impacts to threatened, endangered, and rare species would be negligible. The construction of the mistripretive center and associated roads and parking would have an adverse impact. The degree of the impact would be dependent on existing conditions. Visitio use at the interpretive center and surrounding land would have a minor, long-term, adverse impact.
Air Quality	The Gateways Network would result in no impact to air quality between now and its sunset in 2008.	The creation of an enhanced Gateways Network would have a minor, regional, long-term, beneficial impact to arr quality because of a continually expanded educational program with designated Gateways. The educational function of the interpretive centers would result in a minor to moderate, indirect, long-term, a minor to moderate, indirect, long-term, if the interpretive centers were placed within existing structures, direct impacts to air quality would be negligible. The construction of two Chesapeake Bay interpretive centers in new buildings and associated roads, parking, and support facilities would have direct, short-term, localized, minor, adverse impacts on air quality from emissions and fugitive dust generated from construction activities. Increased visitation would have a minor, believes impact from emissions. Wisior use and increased visitation would have a minor, long-term, adverse impact from emissions. Wisior use and increased visitation would have a minor, long-term, adverse impact.	The creation of a park would have a negligible to minory, stee-specific, long-term, beneficial impact on air quality because of the National Park Service management policies. 's conservation and restoration afforts associated with the management of National Parks. This impact would be expected to be minor and site-specific, New Construction for the negrotewe center would have a direct, short-term, localized, adverse impact on air quality from emissions and fugitive dust quality from emissions and fugitive dust generated from construction activity generated from construction activities in moderate, long-term, adverse impact from moderate, long-term, adverse impact from emissions.	The creation of a rescue would have a minor, long-term, indirect beeficial impact to air quality within the rescue as a result of comprehensive planning and limits on sprawl development through in bethical and financial assistance to local communities for comprehensive planning. If the interpretive comprehensive planning if the interpretive comers were placed within existing structures, direct impacts to air quality would be negligible or beneficial, as remediation measures would be incorporated into the design. New construction for the interpretive center would have a direct, short-term, localized, adverse impact on air quality from emissions and fugitive dust generated from construction activities. Visitor use and increased visitation at the interpretive center and surrounding land would have a minor, long-term, adverse impact.	A preserve would have an indirect minor, long-term, local, beneficial impact to air quality as a result of from technical and financial assistance stewardship and land conservation efforts. If within an existing structure, direct impacts to air quality from interpretive center would be negligible or beneficial, as remediation measures would be incorporated into the design. New construction for the interpretive center would have a direct, short-term, localized, adverse impact on air quality from enrissions and sugitive dust generated from construction activities. Visitor us and increased visitation at the interpretive center and surrounding land would have a minor, long-term, adverse impact on air quality from vehicle emissions.
Cultural Environment					
Cultural Resources	Through 2008, the Gareways Network would result in a minor, stort-term, indirect or direct lassed on location), beneficial impact to cultural resources sthroughout the region because of technical and financial assistance for protection of cultural assistance for protection of cultural assistance for protection of cultural appropriated past 2008 and the Gateways Network program is not sustained, then a negligible, adverse impact would occur throughout the watershed.	A moderate, long-term, indirect, beneficial impact would occur to cultural resources throughout the watershed from the restoration and education aspects of this alternative. The education about select in a minor to moderate, indirect, long-term, watershed-wide beneficial impact to cultural resources as conservation and interpretation efforts are enhance. If the interpretive centers were constructed within non-historic, existing structures, direct impact to cultural resources would be negligible. Constituction of two new interpretive centers would result in an adverse impact on cultural resources if the location of the surrounding cultural resources were within the area of potential effect.	The creation of a park would have a minor, long-term, localized, beneficial impact on cultural resources through limiting disturbances and bringing about restoration effors. The impact is minor due to the limited amount of cultural resources expected in this type of park, land use, commercial facilities, and land disturbing activities within the park, land disturbing activities within the park, land and disturbing activities within the park localized adverse impacts if the location of the localized adverse impacts if the location of the surrounding cultural resources were writhin the area of potential effect.	The technical and financial assistance to help conserve, interpret, and protect sensitive cutural resources would have a moderate, long-term, direct and indirect, beneficial impact on cultural resources in the reserve. If the interpretive center were developed within an existing non-listoric structure, direct impacts to cutural resources would be negligible. New construction of a center and associated roads, parking, and facilities would have foodized a deverse impacts if the location of the surrounding cultural resources were within the area of potential effect.	A moderate, long-term, beneficial impact on cultural resources would occur throughout the resenve from added resource protection. If the interpretive center were developed within an non-historic existing structure direct impacts to cultural resources would be negligible to theneficial as remediation measures are incorporated. The construction of an interpretive center would result in an adverse impact if the location of the surrounding cultural resources were within the area of potential effect.

Impact Topic	Alternative A	Alternative B	Alternative C	Alternative D	Alternative E
Socio-economic Environment					
Boundaries Boundaries	Some minor, very localized, beneficial, direct han use changes may occur associated with Chesqueake Bay Gateways grants projects funded through 2008. There would be no changes to jurisdictional boundaries.	If the interpretive centers were developed within either existing structures or new construction (new or expanded structure), a minor, localized change in land use or jurisdictional boundaries is possible. However, this alternative anticipates the two interpretive centers would be placed in previously developed or urbanized area alleady subject to human disruptions, therefore minimizing impacts to important resource lands.	The impact to land use would generally be presumed to be beneficial to achieving several caregories of Chespeake Bay Program commitments. Conversions for visitor uses would be either beneficial or adverse, depending on the site design, surrounding site characteristics, and size and location of the park.	A limited transfer in property rights would occur on some lands, but would be expected to have negglighle or minor impacts on existing land use designations and changes to jurisdictional boundaries, as the goal would be to continue and sustain traditional uses. The degree of the impact is dependent on existing conditions but it is expected that the impact would be beneficial expected that the impact would be beneficial expected that the impact would be beneficial in jurisdictional boundaries; it is possible that there would be no impact on land use or changes in jurisdictional boundaries if the NRS, in partnership with state or local government, leased or co-occupied publicly-owned facilities for the interpretive center.	Negligible to A preserve would increase consevation and stream consevation and severately measures on land about some changes in existing land use over time, but the minor impacts on existing land use designations and changes to jurisdictional boundaries would be expected. The degree of the impact is dependent on existing conditions. However, but it is expected that the impact would be beneficial within the reserve. It is possible that there would be no impact on land use or changes in partnership with state or local government, leased or co-excluded publicly-rowned facilities.
Population	No impacts to population would occur.	No displacements or adverse impacts on existing population levels would be likely to occur. Incremental increases in wistation would have a nedigible or minor impact on population.	The impact is expected to be minor; however, the degree of the impact is dependent on the level of visitation and local conditions.	Negligible or minor impacts on population would occur.	Negligible or minor impacts on population would occur.
Economy	Greater recopition and use of the Greater recopition and use of the Gateways Network would result in a minor to moderate, beneficial impact to the local economies around the Gateways site. If the program was not continued pass 2008 a program was not continued pass 2008 a long-term, adverse impact would occur from the loss of joint marketing services to designated Gateways and the grants program.	increased visitation would have a long term, direct and indirect, beneficial impact on the local economy. The increased tourism from the visitor centers and other promotional activities would have long-term, direct and indirect, beneficial impacts on the local economy. The degree of the impact would be expected to be long-term, moderate and Bay-wide, but is dependent on visitation levels. The added financial assistance offered by the National Park Sorvice would have minor to moderate beneficial impacts on local seas watershed-wide. The upfront capital investment and operational exquenditures for the two interpretive centers would have long-term, beneficial impacts on the excellent on the existing economic conditions. Any loss of lax revenue from a public entity's land acquisition would have a negligible impact.	The park would have a long-term, moderate, beneficial impact on economics attibuted to increased visitation. There would be a direct, beneficial impact on the local economies through increased tourism numbers and an indirect, beneficial impact on local businesses that supply the local tourism industry. The park may also have an adverse impact on economics because of limits placed on economics because of limits placed on commercial fishing. The adverse impact of a loss of tax evenue from a public entity's land aquisition would be minor. The uptront capital investment and operational expenditures for the interpretive center would have long-term, beneficial impacts on the local community. The degree of the impact would be expected to be minor, but is conditions.	A reserve would have a long-term, moderate, beneficial impact on economics attributed to increased visitation. There would be a direct, beneficial impact on the local economics stributed to increased visitation. There would be a direct, beneficial impact on the local economies through the local the tourism industry. Protection of the direction in traditional, resource-dependent activities would have a moderate beneficial impact to these industries within the reserve. However, the purchase of development rights may limit future growth of local jurisdiction tax revenues. This adverse impact is expected to be localized and minor. The upfront capital investment and operational expenditures for the interpretive center would have beneficial impacts on the local community. The degree of the impact would be expected to be minor, but is dependent on the existing economic conditions. The adverse impact acquisition would be minor.	The preserve would have a long-term, regional, watershedwide, modecate, beneficial impact on economics because of an increase in visitors to the area. The upfront capital investment and operational expenditures for the interpretive center would have beneficial impacts on the local community. The degree of the impact would be expected to be minor, but is dependent on the existing economic conditions. The purchase of conservation essentents of limited burshase of conservation essentents or limited and minor. The adverse impact to be localized and minor. The adverse impact to a locas of tax evenue from a public entity's land acquisition would be minor.
Parks and Recreation	There would be minor to major short-term, beneficial impacts to parks and recreation sites participating in the Network as a result of the Network's rechnical and financial assistance programs. If the Gateways Network is not reauthorized and funded subsequent to 2008, there would be a moderate to major, long-term, adverse impact to parks and recreation sites previously participating in the Network or potentially eligible to do so.	The impacts to parks and recreation sites in the Gateways Network would range from minor to major, fong-term, beneficial effects due to major, fong-term, beneficial effects due to Gateways Network influenced improvements. For instance, educational resources at Gateway sites would be improved causing a beneficial impact because the wistor experience would be enhanced, making the visit more enjoyable or rewarding. Long-term, these improvements would increase wistanton to Gateway sites. With two new interpretive centers to introduce evisitors to the Bay and promote other Gateway sites, the degree of the impact would be expected to be long-term, moderate and Baywidte, but is largely dependent on increased wistates.	The addition of a variety of visitor artivities would have a major, long-term, beneficial impact to the availability of parks and recreation sites. This designation alone may increase visitation at the existing parks. In contrast, the creation of a national park reserve would also have a negative impact on parks and recreation sites in the surrounding area should visitation be drawn away from them and funneled to the reserve. However, the actual type and degree of impact is highly dependent on the location of any pozemial park reserve, something that is not known at this time.	Because of the enhanced visitor experience, there would be a moderate, long-term, beneficial impact to parks and recreation. The impact would be localized to the area of the reserve Under this alternative, existing parks and recreation sites would likely be encompassed within the national reserve designation. This designation alone may increase visitation at the existing pasts. In contrast, the creation of a reserve could have a negative impact on parks and recreation sites in the surrounding area should visitation be drawn away from them and funmeted to the reserve. However, the actual type and degree of impact is highly depended even of any potential reserve, something that is not known at this time.	As a result of the enhanced visitor experience, a moderate, long-term, beneficial impact to parks and recreation sites would occur within the preserve. Under this alternative, existing parks and recreation sites would occur within the preserve incompassed within the national preserve encompassed within the national preserve designation. This designation alone may increase vistation at the existing parks, in contrast, the creation of a preserve could have a negative impact on parks and recreation sites in the surrounding area should visitation be drawn away from them and funneled to the reserve. However, the actual type and degree of impact is highly dependent on the location of any potential reserve, something that is not known at this time.

Transportation to impact to transportation the vicinity of come easiting Gateways sites would have a minor impact to transportation the vicinity of come easiting Gateways sites would have a minor the vicinity of come easiting Gateways sites watershed-wide brighted contracts of visitation because of increased visitation and the vicinity of come easiting Gateways sites watershed-wide brighted easiting Gateways sites watershed-wide brighted easiting Gateway sites in the Bay region increase traffic.  The combination of enhancements to the easity of the visitor of the pack solution and the cateword have a moderate, watershed-wide brighted easity of the visitor experience and Use and the Gateway sites, the Intensity of the elements of the program is not sustained.  The combination of enhancements to the easity of the visitor experience would be been elemented to make the cateword watershed-wide brighted and transfer dependent on the location and accessibility.  The combination of enhancements to the wistor experience would be been elemented by the program in the care would be been elemented to the reserve would be been elemented to make the program and accessibility.  The combination of enhancements to the wistor experience would be been elemented to the reserve would be been elemented to the reserve would be been elemented to the reserve would be been elemented to make the program and the program and the program of the		Alternative A	Afternative B	Alternative C	Impact Topic Alternative A Alternative B Alternative C Alternative D Alternative E	Alternative E
A moderate watershed-wide, long-term, adverse impact to the visitor experience would result in a moderate to major, experience would result in a moderate to major, advanted in the visitor experience would result in a moderate to major, advanted in the visitor experience would result in a moderate to major, advanted in the visitor experience would result in a moderate to major, advanted in the visitor experience would result in a moderate to major, advanted in the visitor experience would result in a moderate to major, advanted in the visitor experience would result in a moderate to major, advanted in the visitor experience would result in a moderate to major. In the pact control that wish the visitor experience would range from minor to major depending on the sites' use of Network returned and finance impact on the reserve's location and accessibility.  The reserve would have a moderate, long-term, beneficial impact on the visitor experience. The major of the impact on visitor experience would one that it is a moderate to the public. The major, beneficial impact on the visitor experience would range from minor to major depending on the sites' use of Network returned and finance reserve's location and accessibility.  The pack would have a moderate to major, beneficial impact on the visitor experience. The major of the impact on visitor use would be local and dependent on the reserve's location and accessibility.  The pack would have a moderate to major the visitor experience. The would respond to major the problem of the impact on visitor use would be local and dependent on the reserve's location and accessibility.  The pack would have a moderate to major the visitor experience would range from minor to major dependent on the reserve's location and accessibility.  The pack would be period to major the would be period to the impact on visitor experience. The would be period to the impact on the reserve's location and accessibility.  The pack would be used to expend the wistor experience. The would be used to majo	Transportation	Local, minor impacts to transportation in the vicinity of some existing Gateways sites may occur.	Traffic around the two interpretive centers would have a minor to moderate, localized, long-term, adverse unpact on transportation routes because of increased visitation. Also, the increased visitation would increase traffic resulting in a negligible adverse impact on a regional scale.	The creation of the park would have a minor to major adverse impact on transportation because of increased visitation to the area resulting in more traffic. The degree of the impact is dependent on visitation levels, site characteristics, and site design, which have not been identified.	Increased visitation associated with the interpretative center would have a minor to moderate long-tent and traffic. The degree of the impact is dependent on visitation levels, site characteristics, and site design, which have not been identified. The impact would be localized to cases surrounding the interpretive center, tour routes, and other visitor sites.	Increased visitation associated with the interpretive center would have a minor to moderate, long-term, adverse impact on local traffic. The degree of the impact is dependent on visitation levels, site characteristics, and site design, which have not been identified. The impact would be localized to a reass surrounding the interpretive center, tour
	Visitor Experience and Use	A moderate, watershed-wide, long-term, adverse impact to the visitor experience would occur if inding is not appropriated past 2008 and the Gateways Network program is not sustained.	The combination of enhancements to the visitor experience would result in a moderate to major, flong-term watershead, be herefulal impact on visitor experiences in the Bay region through enhanced interpretation and visitor experiences. At individual Gateways fites, the intensity of impacts would range from minor to major depending on the sites' use of Network rechnical and financial assistance services. A moderate, long-term, beneficial impact to the visitor experience would occur throughout the watershed because of expanded interpretive services including the working landscape.	The park would have a moderate to major, long-term, beneficial impact on the visitor experience because of added ferceational activities and interpretive programs available to the public. The impact would be local and regional. The magnitude of the impact on visitor use would be dependent on the reserve's location and accessibility.	The reserve would have a moderate, long-term, beneficial impact on the visitor experience. The impact would be local and regional. The magnitude of the impact on visitor use would be dependent on the reserve's location and accessibility.	routes, and demonstration sites.  The preserve would have a moderate long- term, beneficial impact on visitor experience and use. The impact would be local and regional but the magnitude is largely dependent on the location and accessibility.

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#### Section 7: Environmentally Preferred Alternative

In accordance with Director's Order # 12, the National Park Service is required to identify the "environmentally preferred alternative" in all environmental documents, including environmental impact statements.

Identifying the environmentally preferred alternative is not the same as selecting a "preferred alternative" for implementation. The National Park Service is not required to select the environmentally preferred alternative as the final preferred course of action. The study's preferred course of action is described on pages 65-67.

An environmentally preferred alternative is determined by applying the criteria suggested in the National Environmental Policy Act of 1969, which is guided by the Council on Environmental Quality. The Council on Environmental Quality provides direction that "[t]he environmentally preferable alternative is the alternative that will promote the national environmental policy as expressed in Section 101 of the National Environmental Policy Act," which considers:

- Fulfilling the responsibilities of each generation as trustee of the environment for succeeding generations;
- Assuring for all generations safe, healthful, productive, and esthetically and culturally pleasing surroundings;
- Attaining the widest range of beneficial uses of the environment without degradation, risk of health or safety, or other undesirable and unintended consequences;
- Preserving important historic, cultural and natural aspects of our national heritage and maintaining, wherever possible, an environment that supports diversity and variety of individual choice;
- Achieving a balance between population and resource use that will permit high standards of living and a wide sharing of life's amenities; and
- Enhancing the quality of renewable resources and approaching the maximum attainable recycling of depletable resources (National Environmental Policy Act, Section 101)."

#### METHODOLOGY

Choosing the environmentally preferred alternative(s) for this study is difficult because the degree of the impact is largely dependent on the design and layout of the park unit, local conditions, and visitation levels, which have not been determined at this point of the study. For this programmatic study, the National Park Service study team evaluated:

- Changes to the levels of protection, conservation and education from the creation of a new park unit or implementation of a new program or policy,
- The effects of any new development plans, such as the construction of an interpretive center and related improvements; and
- The anticipated visitor levels and visitor uses typical of each park unit proposed.

Each alternative has a different focus or objective: the Enhanced Gateways Network is focused on telling the whole Bay story through a permanent system of more than 140 designated Chesapeake Bay Gateways; the Chesapeake Bay Estuary National Park focuses on the aquatic and estuarine character of the Chesapeake Bay; the National Reserve is directed towards the working maritime and agricultural landscape; and the National Ecological and Cultural Preserve highlights one exemplary Bay tributary and its watershed management. Therefore, a key consideration in choosing the environmentally preferred alternative is weighing the potential benefits or impacts associated with the protection, conservation, education and technical and financial assistance offered by each of the alternatives.

To assist in this evaluation, the gap analysis described in Section 3 was considered in determining intensity levels for the changes in levels of protection, conservation, education and technical and financial assistance. For instance, the gap analysis identified niches for potential park concepts in: (a) Expanded natural resource conservation, especially aquatic resources, in a focused area that complements and goes beyond current programs; and (b) enhanced recognition, conservation and interpretation of broad cultural resource areas, specifically working landscapes and traditional water dependent communities. While both niches reflect gaps, there is a higher degree of existing state and local programming providing significant protection to natural and aquatic resources than for working landscapes. Therefore, the degree of potential environmental benefit or gain might be higher for a concept protecting Bay landscapes than for a concept offering additional protection for aquatic resources. Another key consideration was the context of the impact. Does the program or policy have localized, baywide or watershed-wide benefits or impacts?

The study team also considered other potential impacts in selecting the environmentally preferred alternative, in which the gap analysis had no bearing on the intensity levels. The impacts generally resulted from capital improvements such as the construction of an interpretive center, anticipated visitor uses typical of each park unit, and an increase in visitation to the area.

#### **ANALYSIS**

It is anticipated that the No Action Alternative, Alternative A, would not have considerable benefits compared to the other action alternatives. In comparison to Alternative B, an enhanced Chesapeake Bay Gateways Network, the benefits are considerably less. All the action alternatives offer benefits in the areas of conservation, restoration, education, and interpretation and therefore, all alternatives are consistent with fulfilling criteria 1, 2, 3, 4, 5, and 6 listed under Section 101 of NEPA.

The Enhanced Gateways Network (Alternative B) has by far the broadest geographic and thematic scope and approach to education, protection, and conservation. Alternative B addresses sites, resources and themes throughout the Bay watershed at more than 140 different sites. Especially in terms of interpretation, education and public access, this alternative goes farther than the others. In terms of conservation and restoration, this alternative may provide less direct impacts than a new single site-focused park unit, as most

Gateway sites already exist. However, expanding conservation assistance to certain Bay landscapes would provide a new degree of beneficial effects.

Alternative C, the Chesapeake Bay Estuary National Park, has a narrower focus – the conservation and interpretation of a specific representative example of the Bay's aquatic, estuarine environment. While this concept goes beyond existing models in the Bay region, there are existing federal, state and local programs specifically focusing on conservation and restoration of aquatic resources. Thus, the conservation benefit may be incrementally less than that in alternatives D and E. Alternative C would provide distinct educational, interpretive and public access opportunities at the park. These site-specific benefits would not be as sizeable as the watershed-wide educational and interpretive opportunities of Alternative B.

Alternatives D (National Reserve) and E (National Ecological and Cultural Preserve) each have a narrower focus than B, but a broader one than C. In different ways, each of them incorporate land and water resources and natural and cultural themes, going beyond the solely natural systems focus of alternative C. Moreover, D and E encompass different strategies and emphases in conserving fairly broad sets of resources making up a whole landscape or sub-watershed (respectively). Because they address conservation and stewardship of land resources – the greatest source of Bay pollutants – they would have higher conservation benefits than alternative C. However, like alternative C, they both address a single contiguous area. Even if the areas are fairly large, the geographic and thematic scope of D and E remains small relative to alternative B.

The degree of adverse impacts associated with the new interpretive center(s) and associated improvements (in alternatives B, C, D & E) is dependent on existing site conditions. It is expected that impacts would be minimized to the extent practical through existing NPS practices and management policies. One noticeable difference exists when looking at the four action alternatives. Under Alternative B, the interpretive/orientation center would be located in an existing high-traffic area, most likely near or in an urbanized environment. The centers in the other alternatives would likely be in less developed areas, though not necessarily on undeveloped land. Thus, the adverse impact from the development of an interpretive center under Alternative B would most likely have less long-term, adverse impacts to the terrestrial and aquatic resources when compared to Alternative C, D, and E. Also, under Alternative B there may be more opportunities for enhancing, redeveloping, co-leasing, or restoring an existing site, which would be consistent with the NPS sustainability management practices.

Lastly, each of the action alternatives is expected to draw added tourism and increased visitation. Increased visitation would have beneficial impacts such as increased revenues to local businesses or adverse impacts such as added demands on existing transportation systems. The degree of the impact is highly dependent on the park unit's carrying capacity and surrounding conditions; however, each alternative is expected to meet criterion 5 "Achieving a balance between population and resource use...."

One difference associated with increased visitation is the number of visitors anticipated under Alternative B would be dispersed amongst the 140+ Gateway sites, whereas, the visitor use in Alternatives C, D, and E would be

localized to an area that may not have been previously adapted to such uses. Under Alternative B, it is assumed that the carrying capacity and site amenities would be adequate to handle any increases to each site because the overall increased visitation would be dispersed over the entire Gateways Network; therefore, the impact would be negligible to the natural and socioeconomic environment surrounding each site. In this case, there would be no impairment to the existing Gateways' resources and values as a result of implementing Alternative B.

#### **ENVIRONMENTALLY PREFERRED ALTERNATIVE(S)**

At the conceptual level of this study, a clear distinction cannot be made between the overall benefit of Alternatives B, D and E. However, each of these three alternatives has greater environmental benefits than alternatives C and A. Accordingly, these three alternatives are the environmentally preferred alternatives.<sup>14</sup>

Alternative B provides conservation, interpretive, educational and public access benefits over a broader scope and regional context (watershed-wide) than the other alternatives. In addition, the construction of the interpretive centers and associated improvements under Alternative B would have fewer impacts to the environment because any construction/development would occur in more developed areas than in the other alternatives.

However, alternatives D and E, though not watershed-wide in scope, have broader scope and environmental benefits than alternative C (which is solely focused on the aquatic system) and alternative A, a core part of which expires in 2008. Moreover, these alternatives have a direct conservation benefit through land conservation strategies that is more specific than in alternative B.

Weighing the differing environmental benefits of alternatives B, D & E suggests the overall benefits may be roughly equivalent.

<sup>&</sup>quot;It bears repeating that the environmentally preferred alternative is not the same as selecting a "preferred alternative" for implementation. The National Park Service is not required to select the environmentally preferred alternative as the final preferred course of action. This study's final preferred course of action is indicated on pages 65-67.

### Section 8: Consultation and Coordination

#### INTRODUCTION

Public involvement is essential in exploring whether a Chesapeake Bay focused unit of the National Park System should be created. This chapter describes the study's public involvement, agency coordination, and consultation procedures, in compliance with National Environmental Policy Act of 1969 (NEPA).

NEPA requires that federal agencies plan and carry out their activities "so as to protect and enhance the quality of the environment. Such activities shall include those directed to controlling pollution and enhancing the environment."

The requirements of the act are fulfilled when extensive public involvement in the planning and development of any proposed federal actions and consideration of potential impacts to the cultural, natural, and socioeconomic environment have taken place. The latter is accomplished through the environmental impact statement (EIS) included in this document. <sup>15</sup>

The public involvement requirement of NEPA is fulfilled through formal steps, as well as through the informal consultations which have taken place throughout this study. The formal NEPA requirements were initiated with publication of a "Notice of Intent to prepare an Environmental Impact Statement and hold public meetings for the Chesapeake Bay Special Resource Study" in the Federal Register on September 23, 2002. Public meetings (workshops) were held in September 2002 and Summer 2003 as described below.

A draft environmental impact statement (DEIS) and study report for the Chesapeake Bay SRS was available for public review for 60 days in summer 2003, during which time agencies and the public commented. Copies of letters from Federal, State, and Local government agencies and nongovernmental organizations are provided in Appendix B. Letters from individuals are available for review by appointment during normal business hours at the NPS Chesapeake Bay Program Office.

This final study report and environmental impact statement were prepared following the public review period and include a summary of public comments and any modifications to the report resulting from those comments. After a 30-day no-action period, a Record of Decision (ROD) will

<sup>&</sup>lt;sup>15</sup> This EIS is essentially a programmatic statement, presenting an overview of potential impacts relating to the proposed program for each alternative. More detailed plans would be developed for individual actions prior to implementation if any of the alternatives are to be implemented. Any document associated with these plans will be tiered to this programmatic statement.

be prepared to document the selected alternative and set forth any stipulations for implementation.

#### PROJECT SCOPING

Public and stakeholder involvement in this special resource study has been coordinated by the National Park Service's Chesapeake Bay Program Office, with assistance from the NPS Northeast Regional Office and Washington Office, and close coordination with the Chesapeake Bay Program.

Since initiating preliminary planning for this study in Fall 2000, the project team has engaged interested individuals and organizations. The study team conducted worksessions with project partners and stakeholders and hosted public scoping meetings in an effort to better understand the national significance of the Chesapeake Bay and the gaps in existing protection and interpretation. A website was maintained with pertinent background information and a forum for receiving public comment. At the time of this report, four newsletters were produced to communicate with a broad public audience.

#### **Public Involvement and Stakeholder Workshops**

Two sets of public meetings and open houses have been conducted to communicate and solicit input from a broad public audience regarding the Chesapeake Bay SRS/EIS. Along with members of the general public, representatives from the National Park Service, states of Maryland and Virginia, the District of Columbia, natural and cultural resource managers, and the planning consultants attended the meetings. Meeting notices were sent to individuals and organizations listed in a database of stakeholders compiled from previously existing mailing lists from the Chesapeake Bay Gateways Network, the Chesapeake Bay Program, and other NPS resources. Information was also posted on the website. All meeting participants were added to the database, which in turn was used to inform interested parties of future meetings and other project-related information. Press releases to regional media were issued prior to each meeting. Individuals who were unable to attend meetings were able to provide comments through the website or mail.

The public scoping meetings were held in September 2002 at four locations in the study area. At each meeting, the project team introduced the background and purpose of the project and gave a brief of overview of the results of the gap analysis. Following the general presentation, three groups were formed to discuss preliminary concepts and to generate ideas for new concepts. The public was given the opportunity in a small group setting to identify issues and opportunities related to each preliminary concept and the general idea of a Chesapeake Bay-focused NPS unit. The public was also asked to submit new concepts or combinations of existing concepts.

Following release of the draft SRS/EIS and during the public comment period, five open-house style public meetings were held around the Chesapeake Bay in July 2003. At each meeting, the project team welcomed visitors and encouraged them to view the large-scale displays that illustrated the conceptual alternatives. The team encouraged the participants to view the

exhibits at their own pace and to engage team members in discussion. Participants were asked to comment on the study in general and each alternative.

Specific Workshops, Meetings and Publications:

- Stakeholder Worksession #1-October 30, 2001, Gap Analysis
- Newsletter #1- August 2002
- Project Brochure- August 2002
- Public Scoping Meeting #1-September 16, 2002, Newport News, Virginia, Main Street Library
- Public Scoping Meeting #2-September 17, 2002, Salisbury, Maryland,
   Salisbury University Guerrieri University Center
- Public Scoping Meeting #3-September, 24, 2002, North East, Maryland, Cecil Community College Conference Center
- Public Scoping Meeting #4-September 26, 2002, Annapolis, Maryland, Maryland Hall for the Creative Arts
- Maryland Public Television Call-In Broadcast, October 10, 2002
- Stakeholder Worksession #2-October 22, 2002, Alternatives Worksession
- Newsletter #2- November 2002
- Newsletter 3/Executive Summary June 2003
- Public meeting (open house) #5—July 12, 2003, Annapolis, Maryland, City Dock
- Public meeting (open house) #6—July 17, 2003, Cambridge, Maryland,
   Sailwinds Visitor Center
- Public meeting (open house) #7—July 23, 2003, Newport News, Virginia, Mariners' Museum
- Public meeting (open house) #8—July 24, 2003, Yorktown, Virginia, Yorktown Visitor Center
- Public meeting (open house) #9—July 27, 2003, Baltimore, Maryland, Fort McHenry National Monument and Historic Shrine
- Public, Stakeholder and Agency review of draft report/EIS—June 25, 2003 through September 17, 2003
- Newsletter #4- January 2004
- Distribution of final report/EIS—Upon Release

#### **PUBLIC REVIEW OF THE DRAFT SRS/EIS**

Availability of the Draft SRS/EIS was announced in the *Federal Register* on June 25, 2003. The official 60-day public review and comment period closed on September 17, 2003. Comments were made by Federal, State, and Local agencies, nongovernmental organizations, and private individuals. Public comment on the draft study was expressed in four ways:

- by written statement made during one of the five open houses held in July 2003;
- through written letters, electronic mail, or website comment forms submitted by individual citizens;
- through written letters, electronic mail, or website comment forms submitted by nongovernmental organizations or special interest groups;
- through written letters submitted by Federal, State, and local government agencies.

#### **Comment Summary**

In total, there were more than 3000 comments submitted—approximately 935 public open house comments cards, 52 from agencies and organizations, and 2107 from individual comments via the website, email, mail, and fax. The comments primarily reflected individuals' support for the study and the idea of a "Chesapeake Bay National Park" and/or a preference for one or more of the alternatives. The comments had several overarching messages and consistent themes. An analysis of the public response to the draft plan resulted in several general observations. People:

- view the Chesapeake Bay as an overwhelmingly significant place where both natural and cultural resources and themes are paramount;
- are concerned about how the Bay is doing and want to see it restored;
- support the National Park Service having a long-term role in the Chesapeake—over 92% of comments supported doing more than the status quo (Alternative A);
- have a strong preference for combining elements of the initial concepts, rather than picking any single concept by itself; no single concept can adequately represent the size and diversity of the Bay;
- support making the National Park Service commitment to the Chesapeake Bay Gateways Network permanent (as in alternative B); almost all respondents at open houses said they would visit one or more Gateways Network sites (see www.baygateways.net) and supported the addition of two interpretive centers; and
- establishing a "park unit/NPS role" that encompasses at least one of alternatives C, D or E, but preferably elements of all three.

The comments strongly rejected the status quo, with many people saying more efforts were needed to improve public access to the Bay and to educate the public so that they have a greater appreciation of the entire Bay watershed.

A summary of the public comments was broadly distributed through the fourth issue of the study newsletter in January 2004 and is provided in Section 4 of this report.

#### **Comment Analysis**

After the closure of the official comment period, the NPS planning team analyzed the content of the public comments and all other written responses to the Draft SRS/EIS. The comments were categorized into three response categories:

- i. out-of-scope
- 2. in-scope and substantive
- 3. in-scope but non-substantive

#### Out-of-Scope

Concerns were classified as falling within the scope of decision making or falling outside the scope. The Council on Environmental Quality (CEQ) regulations define the "scope of decision making" as the range of connected, cumulative, or similar actions, the alternatives and mitigation measures, and the direct, indirect, and cumulative impacts to be considered in the EIS.

Generally, concerns considered out-of-scope are those that:

- Do not address the purpose, need, or goals of the Special Resource Study.
- Address issues or concerns that are already decided by law and policy.
- Suggest an action not appropriate for the current level of planning.
- Recommend only minor editorial corrections.

#### In-Scope and Substantive

Concerns within the scope of decision-making were further classified as inscope and substantive or in-scope but nonsubstantive. NPS policy and NEPA guidelines define substantive comments as those that:

- Question the reasonable basis, the accuracy or the information in the EIS.
- Question, with reasonable basis, the adequacy of the environmental analysis.
- Present reasonable alternatives other than those presented in the EIS.
- Cause changes or revisions to the proposal.

#### In-Scope but Nonsubstantive

In-scope but nonsubstantive comments include those that simply state a position in favor of or against the proposed alternative, merely agree or disagree with NPS policy, or otherwise express an unsupported personal preference or opinion.

#### **Response to Comments**

The in-scope and substantive concerns were re-examined and appropriate responses prepared. Responses to in-scope and substantive comments often resulted in changes to the text of the Final SRS/EIS, often for clarification purposes. NPS is required to respond only to in-scope, substantive comments. However, in some cases, responses were prepared for selected out-of-scope and in-scope but nonsubstantive concerns if the planning team thought providing a response enhanced public understanding of the decision-making process.

I. Concern: The Draft SRS/EIS is programmatic in nature and provides an excellent overview of the concepts and expected environmental impacts. Site specific activities will require future NEPA documentation and review. (EPA Region III-NEPA and Section 309 Review Comments)

Response: The National Park Service concurs with the EPA (EPA Region III-NEPA and Section 309 Review Comments) recommendations for future environmental analysis for site specific

activities and implementation. Once a proposal is chosen for implementation, the National Park Service will incorporate EPA's recommendations into future planning and environmental analysis. As for the editorial comments at the end of EPA's Technical Comments, the National Park Service has reviewed and incorporated the recommended changes into the Final SRS/EIS, as appropriate and feasible. The National Park Service appreciates the request for updated statistical information on the Chesapeake Bay. However, this updated information does not change any of the outcomes or impacts in this SRS/EIS, and where this information could be readily obtained, the information was updated and incorporated into the document.

2. Concern: The Draft SRS/EIS is a conceptual document and specific federal consistency determination may be premature in the current phase of the study. The final SRS/EIS should include a general commitment that the NPS's activities pursuant to the SRS/EIS and any resulting Congressional authorization will be consistent with the Virginia Coastal Resources Management Program (VCP). NPS should also submit a consistency determination prior to undertaking any activities. (Commonwealth of Virginia Department of Environmental Quality)

Response: Text has been added under the Water Resources Section describing the Federal Consistency determination. At this time, a Federal consistency determination pursuant to the state's Coastal Zone Management regulations is premature; however, we concur that the National Park Service should acknowledge its requirements and commit to compliance with the state's Coastal Zone Management Act during the next phase of environmental analysis associated with any implementation of a preferred alternative.

 Concern: An enhanced Gateways Network or any other NPS role in the Chesapeake Bay must have adequate and permanent funding, planning support, and staffing. (Commonwealth of Virginia Department of Conservation and Recreation and Commonwealth of Virginia Department of Historic Resources)

The NPS concurs that adequate and permanent funding, planning support, and staffing are necessary and should be part of implementing any selected alternative.

4. Concern: The National Park Service should create the Harriet Tubman National Park. (The Harriet Tubman Museum and Educational Center, Inc., The Ad Hoc Committee for the Harriet Tubman National Park, and the National Association for the Advancement of Colored People)

Response: As described in Section 3: Analysis of Opportunities of the draft SRS/EIS, many ideas were generated throughout the study. In September 2002, prior to the development of alternatives, six initial concepts were presented at public workshops. These sessions generated a variety of public comments, including some suggested

new ideas, including a Harriet Tubman National Park (page 18). A formal alternative based on this concept was not developed as part of this study because of a separate pending National Park Service study.

The National Park Service is currently conducting a Special Resource Study explicitly for the purpose of evaluating options for protecting and interpreting important sites related to the life of Harriet Tubman. The Harriet Tubman SRS, referenced in the Chesapeake Bay SRS/EIS on page 18, is expected to make findings and recommendations regarding any National Park Service role in presenting the Harriet Tubman story. A Harriet Tubman park proposal is far more appropriately considered in the context of the Harriet Tubman SRS than through this study. Resources associated with Harriet Tubman extend far beyond the study area of the Chesapeake SRS/EIS. It is simply not feasible to adequately address those resources within the context of this more geographically limited study.

The National Park Service agrees there are certain themes and resources that may have relationships to both the Chesapeake Bay study and the Harriet Tubman SRS; the same is true for two other similar pending studies with some Chesapeake connections, both cited on pages 18-19 of this report. Pending the final recommendations of the Harriet Tubman SRS, there may be opportunities for linking aspects of interpretation and resource protection associated with the Chesapeake Bay and Harriet Tubman.

5. Concern: The draft SRS/EIS omits an important part of the region's cultural history. The five alternatives do not address the need for historic preservation or a new historical park that focuses on influential events in the history of the region. (The Harriet Tubman Museum and Educational Center, Inc., The Ad Hoc Committee for the Harriet Tubman National Park, and the National Association for the Advancement of Colored People and Many Rivers Community History Network)

Response: Text has been added, as suggested, to the National Significance and Affected Environment sections. The National Park Service anticipates that all of the four action alternatives would incorporate some degree of both conservation and interpretation of various aspects of the region's rich cultural heritage. In particular, alternatives B and D both have cultural heritage as a central focus, with alternative B addressing a broader range of themes and alternative D targeting themes associated with the Chesapeake's rural and maritime history. Specific plans (such as interpretive plans) for addressing key resources and themes would be prepared as part of the implementation of a selected alternative.

6. Concern: A Chesapeake Bay National Water Trail would tie together the Bay's Gateway Communities and its rich variety of historic sites, wildlife refuges, parks, greenways, and wetlands and support each of the SRS alternatives. (Friends of the Chesapeake Bay National Water Trail, the Izaak Walton League of America, and the National Geographic Society)

Response: The National Park Service concurs that water trails are an important means of linking Chesapeake Bay resources. Under the designation and technical and financial assistance authorities of the Chesapeake Bay Gateways Network, 21 water trails – totaling well over 1100 miles in combined length – already exist or are under development in the Chesapeake Bay watershed. The draft SRS stated on pages 35–36 that "park unit concepts could complement this effort [water trail development and management], but creation of a unit for this purpose alone would be redundant with ongoing efforts unless it adds new elements not possible through existing authorities." Further development and linking of Chesapeake Bay water trails could occur through a preferred alternative incorporating alternative B, which, among other components, provides outstanding potential for an integrated and nationally recognized Chesapeake Bay water trail system.

7. Concern: A new park unit should encompass a truly representative sample of resources that make the Chesapeake Bay a unique place. The final recommendations should include a plan that combines elements of the alternatives and focuses on conserving meaningful examples of waterways, riparian zones, estuarine waters, and wildlife while also supporting the traditional working landscapes of the Bay watershed. (The Wilderness Society)

Response: NPS concurs that it is the combination of significant resources that makes the Chesapeake Bay a unique and special place. While the alternatives are presented in a discreet manner, NPS acknowledges that the alternatives are not mutually exclusive. The preferred alternative described on pages 65-67 outlines an approach that could ultimately embrace multiple elements.

8. Concern: Alternatives B-E all include requirements for public/private land acquisition without details about the federal regulatory constraints that would result in such acquisition. None of the alternatives include cost estimates or time frames for implementation. (Maryland State Builders Association and Maryland Saltwater Sportfishermen's Association, Inc.)

Response: NPS prepared a class C cost estimate for each alternative on page 60. These estimates are consistent with the level of detail possible for conceptual alternatives where no sites have been identified. The estimates represent order of magnitude costs for planning and design, interpretive centers, and recurring annual costs for operations and management. Direct land conservation costs for alternatives C, D and E cannot be estimated in the abstract without reference to a particular site-specific proposal. Estimates would be prepared when and if a more detailed concept is formulated. NPS is not aware of any regulatory constraints associated with land acquisition.

9. Concern: NPS should consider a Chesapeake Bay National Heritage Area either in partnership with the Chesapeake Bay Gateways Network or as a separate alternative. (Maryland Heritage Areas including Annapolis, London Town and South County Heritage Area, Baltimore City Heritage Area, and Caroline, Kent, Queen Anne's and Talbot County Heritage Area)

Response: The Chesapeake Bay watershed already encompasses 17 designated state heritage areas: 11 heritage areas in Maryland, 5 heritage regions in Pennsylvania and 1 urban cultural park in New York. Many, if not all of these heritage areas address regional themes with direct or indirect relationships to the Chesapeake Bay. Several of the Maryland heritage areas adjoin the main-stem of the Bay itself. The existing Chesapeake Bay Gateways Network, while substantially different, does support initiatives complementary to many heritage areas, but addresses them across a broader geographic area. The National Park Service believes that creation of a Chesapeake Bay National Heritage Area would be redundant with these existing programs. Moreover, the scale and magnitude of the Chesapeake Bay watershed – 64,000 square miles in 6 states and the District of Columbia – would make the planning and management requirements of national heritage areas impracticable.

10. Concern: One of the action alternatives should be a "full-fledged national park", as opposed to the other types of park units described in the alternatives. (Many Rivers Community History Network).

Response: The National Park System consists of more than 388 units. They go by many names - national parks, monuments, historic sites, historical parks, seashores, recreation areas, and many others. In total there are more than 20 different "titles" within the Park System. These numerous designations sometimes confuse visitors and, in fact, the titles have not been used consistently over the years. In 1970, Congress passed legislation saying all units of the system have equal legal standing in a national system.

The titles chosen for each of the action alternatives are derived from matching the types of resources and intended conditions associated with each concept with the most typical description found among existing units of the National Park System. Alternative C is thus a national park focused on the Chesapeake Bay Estuary.

#### BRIEFINGS AND CONSULTATIONS

In addition to the sessions noted above, the study team has provided briefings and consultations, upon request, to federal, state and local jurisdictions, stakeholder agencies and organizations, resource managers, and other officials. The following is a list of organizations and agencies with which briefings and consultations have been held up until the publication date of this study. Additional briefings and consultations will continue to be held upon request through the end of the study.

	·
01/24/02	Regional Director's Briefing
02/28/02	NOAA Chesapeake Bay Office
03/05/02	US EPA, Chesapeake Bay Program Office
03/07/02	NPS Directorate Briefing
03/07/02	Alliance for the Chesapeake Bay
03/26/02	NPS Director's Briefing
04/24/02	NPS Natural Resources Staff Briefing
05/10/02	Office of Congressman Wayne Gilchrest
05/10/02	Office of Congresswoman Jo Ann Davis
05/14/02	Chesapeake Bay Commission
05/23/02	Chesapeake Bay Foundation
05/24/02	Office of Congressman Steny Hoyer
07/01/02	Virginia Secretary of Natural Resources, Virginia Department of Conservation and Recreation, Virginia Tourism Corporation, Virginia Department of Historic Resources
07/03/02	Office of Senator George Allen; Office of Senator John Warner
07/03/02	Office of Congressman Ed Schrock
07/03/02	Office of Congressman Robert Scott
07/05/02	Office of Congressman Robert Ehrlich
07/10/02	Maryland Historical Trust
07/30/02	Office of Congressman Ben Cardin
08/12/02	Maryland Office of Tourism Development
08/13/02	Maryland Department of Natural Resources
08/15/02	US Environmental Protection Agency, Chesapeake Bay Program Office
08/16/02	Citizens Advisory Committee, Chesapeake Bay Program
08/21/02	USDA Forest Service, Chesapeake Bay Office
08/27/02	US Fish & Wildlife Service, Blackwater National Wildlife Refuge; Friends of Blackwater National Wildlife Refuge
09/04/02	Chesapeake Bay Program Office Staff
09/05/02	Ad Hoc Committee for Harriet Tubman National Park
09/10/02	Tidewater Farmers Club
09/12/02	Local Government Advisory Committee, Chesapeake Bay Program
09/19/02	Implementation Committee, Chesapeake Bay Program
09/23/02	US Army Corps of Engineers, Baltimore District
09/25/02	Principals Staff Committee, Chesapeake Bay Program
11/03/02	Maryland Watermen's Association
11/08/02	Virginia Department of Conservation and Recreation
11/18/02	Maryland Department of Natural Resources
12/19/02	NPS National Capital Region
12/19/02	National Parks Conservation Association
01/02/03	Chesapeake Bay Commission
01/24/03	Chesapeake Bay Gateways, Annapolis Area
01/24/03	Chesapeake Bay Gateways, Kent Island/Mid-Eastern Shore Area
01/27/03	Chesapeake Bay Gateways, Central Eastern Shore
01/29/03	Chesapeake Bay Gateways, James and York Rivers Area
02/05/03	Office of Senator Paul Sarbanes
02/12/03	Chesapeake Bay Gateways Network Working Group

02/20/03	Chesapeake Bay Gateways, Southern Maryland Area
02/24/03	Chesapeake Bay Gateways, Northern Neck Area
02/27/03	Chesapeake Bay Gateways, Hampton Roads Area
02/28/03	Chesapeake Bay Gateways, Pennsylvania, New York & W. Virginia
03/03/03	Chesapeake Bay Gateways, Baltimore Area
03/04/03	Chesapeake Bay Gateways, South Central Eastern Shore Group
03/05/03	Chesapeake Bay Gateways, Washington DC/Potomac Area
03/07/03	Chesapeake Bay Gateways, Upper Bay Area
03/26/03	Sierra Club, Montgomery County MD Chapter
04/22/03	Chesapeake Bay Foundation
5/13/03	Virginia Tourism Corporation
5/13/03	Office of the Secretary, U.S. Department of Interior
5/21/03	Chesapeake Bay Commission
5/22/03	Office of Congressman Ed Shrock
5/22/03	Office of Congressman Robert Scott
5/22/03	Office of Congresswoman JoAnn Davis
5/28/03	Office of Congressman Wayne Gilchrest
5/28/03	Office of Congressman Dutch Ruppersberger
6/02/03	Office of Congressman Steny Hoyer
6/02/03	Office of Senator John Warner
6/02/03	Office of Senator George Allen
6/20/03	Office of Senator Barbara Mikulski
6/24/03	Talbot County Council (MD)
7/7/03	Maryland Department of Natural Resources
7/9/03	Chesapeake Bay Gateways Network Working Group
7/14/03	Chesapeake Bay Program Office Staff
7/23/03	Middle Peninsula Planning District Commission (VA)
7/25/03	Office of Congressman Ed Shrock
8/7/03	Towson MD Rotary Club
8/9/03	Citizens' Advisory Committee, Chesapeake Bay Program
8/11/03	Middle Peninsula Land Trust (VA)
8/13/03	National Parks Conservation Association
8/19/03	Annapolis MD Rotary Club
8/21/03	Maryland Saltwater Sportfishing Association
10/27/03	Northeast Regional Director, NPS
.11/6/03	Town Hall Meeting, Chesapeake Bay Gateways Network
12/18/03	The Conservation Fund
2/6/04	NPS Directorate
2/6/04	Office of the Assistant Secretary, Fish, Wildlife & Parks, DOI
2/17/04	Office of Governor Robert Ehrlich, Maryland
3/3/04	Maryland Office of Tourism Development
3/18/04	Implementation Committee, Chesapeake Bay Program
3/29 - 4/2/04	
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#### COMPLIANCE WITH LAWS AND REGULATIONS

The following laws and associated regulations provided direction for the project alternatives and the analysis of impacts:

National Environmental Policy Act of 1969 (Title 42 U.S. Code Sections 4321 to 4370 [42 USC 4321-470]). The purposes of National Environmental Policy Act include encouraging "harmony between [humans] and their environment and promote efforts which will prevent or eliminate damage to the environment...and stimulate the health and welfare of [humanity]." The purposes of the National Environmental Policy Act are accomplished by evaluating the effects of federal actions. The results of these evaluations are presented to the public, federal agencies, and public officials in document format (e.g., environmental assessments and environmental impact statements) for consideration prior to taking official action or making official decisions. Implementing regulations for the National Environmental Policy Act are contained in Part 1500 to 1515 of Title 40 of the U.S. Code of Federal Regulations (40 CFR 1500-1515).

Endangered Species Act of 1973, as amended (16 USC 1531-1544). The purposes of the Endangered Species Act include providing "a means whereby the ecosystems upon which endangered species and threatened species depend may be conserved." According to the Endangered Species Act, "all Federal departments and agencies shall seek to conserve endangered species and threatened species: and "[e]ach Federal agency shall...insure that any action authorized, funded, or carried out by such agency...is not likely to jeopardize the continues existence of any endangered species or threatened species." The U.S. Fish and Wildlife Service (non-marine species and the National Marine Fisheries Service (marine species, including anadromous fish and marine mammals) administer the Endangered Species Act. The effects of any agency action that may affect endangered, threatened, or proposed species must be evaluated in consultation with either the U.S. Fish and Wildlife Service or National Marine Fisheries Service, as appropriate. Implementing regulations that describe procedures for interagency cooperation to determine the effects of actions on endangered, threatened, or proposed species are contained in 50 CFR 402.

National Historic Preservation Act of 1966, as amended (16 USC 470 et sequentia). Congressional policy set forth in the National Historic Preservation Act includes preserving "the historical and cultural foundations of the Nation" and preserving irreplaceable examples important to our national heritage to maintain "cultural, educational, aesthetic, inspirational, economic, and energy benefits." The National Historic Preservation Act also established the National Register of Historic Places composed of "districts, sites, buildings, structures, and objects significant in American history, architecture, archeology, engineering, and culture." Section 106 of the National Historic Preservation Act requires that federal agencies take into account the effects of their actions on properties eligible for or included in the National Register of Historic Places and coordinate such actions with State Historic Preservation Offices. The National Historic Preservation Act also requires federal agencies, in consultation with the State Historic Preservation Office, to locate, inventory, and nominate all properties that appear to qualify for the National Register of Historic Places, including

National Historic Landmarks. Further, it requires federal agencies to document those properties in the case of an adverse effect and propose alternatives to those actions, in accordance with the National Environmental Policy Act.

Clean Water Act of 1972, as amended (33 USC 1251-1387). The purpose of the Clean Water Act is to "restore and maintain the chemical, physical and biological integrity of the Nation's waters." The U.S. Army Corps of Engineers has been charged with evaluating federal actions that result in the potential degradation of the waters of the United States and issuing permits for actions consistent with the Clean Water Act. In some cases, state governments help administer the program through a joint permitting process.

Section 10 of the Rivers and Harbor Act of 1899 (33 USC 403). Section 10 of the Rivers and Harbor Act regulates activities in navigable waters of the United States. The Corps of Engineers is the regulatory agency responsible for Section 10 reviews. Section 10 states "That the creation of any obstruction not affirmatively authorized by Congress, to the navigable capacity of any of the waters of the United States is hereby prohibited; and it shall not be lawful to build or commence the building of any wharf, pier, dolphin, boom, weir, breakwater, bulkhead, jetty, or other structures in any port, roadstead, haven. harbor, canal, navigable river, or other water of the United States, outside established harbor lines, or where no harbor lines have been established, except on plans recommended by the Chief of Engineers and authorized by the Secretary of War; and it shall not be lawful to excavate or fill, or in any manner to alter or modify the course, location, condition, or capacity of, any port, roadstead, haven, harbor, canal, lake, harbor of refuge, or enclosure within the limits of any breakwater, or of the channel of any navigable water of the United States, unless the work has been recommended by the Chief of Engineers and authorized by the Secretary of War prior to beginning the same (USACE, 2002)."

Coastal Zone Management Act of 1972 (16 USC 1451-1464). The Coastal Zone Management Act presents a Congressional declaration to 'preserve, protect, develop, and where possible, to restore or enhance, the resources of the Nation's coastal zone for this and succeeding generations." The Act also encourages "states to exercise effectively their responsibilities in the coastal zone through the development and implementation of management programs to achieve wise use of the land and water resources of the coastal zone." All actions proposed by federal, state, and local agencies must be consistent with the Coastal Zone Management Plan, as determined by the implementing state.

Pursuant to the Coastal Zone Management Act, the National Oceanic and Atmospheric Administration approved Maryland's and Virginia's Coastal Resources Management Programs. Accordingly, federal activities which are reasonably likely to affect any land or water use or natural resources of the state's designated coastal resources management area must be consistent with the enforceable policies of the state's Coastal Resources Management Program." All federal development projects inside the coastal zone are automatically subject to consistency and require a Consistency Determination.

The alternatives considered in the SRS/EIS have the potential to be in and impact the state's coastal zone. In as much as the Chesapeake Bay SRS/EIS is a programmatic study, the National Park Service will further evaluate the potential impact on the state's coastal zones as site specific information becomes available in later phases of the project and then make a Federal consistency determination that will be submitted to the state's Coastal Zone Management Program for review and concurrence.

Chesapeake Bay Environmental Preservation Act of 1988. In 1986, the State of Maryland approved the final regulation and guideline for the establishment of the Critical Area Commission, (Subtitle 8-1801-1816) and criteria for the Chesapeake Bay Critical Area Law (COMAR 14.15). The purpose of the law is to regulate activities within 1,000 feet of tidal waters of the Chesapeake Bay with the intent of improving the water quality and habitat in the Bay (MDE, 2002). Virginia has enacted similar legislation in the Chesapeake Bay Environmental Preservation Act of 1988 that requires local governments to designate and protect Chesapeake Bay Preservation Areas. These areas include Resource Protection Areas (RPAs)-extremely sensitive areas such as streams, rivers, lakes, and wetlands and a 100-foot buffer surrounding them -- and Resource Management Areas (RMAs) - areas in which improper development can also degrade water quality.

Chesapeake Bay Restoration Act of 2000. In 2000, Congress passed legislation that further committed the signatories of the Chesapeake Bay Agreement to a comprehensive cooperative program to improve water quality and the productivity of living resources in the Bay and continue federal support.

The Chesapeake Bay Initiative of 1998 (as amended). This is the enabling legislation for the Chesapeake Bay Gateways Network. Recognizing the importance of the Chesapeake Bay, Congress passed this initiative to enhance education, interpretation, public access, and conservation of natural, cultural and recreational resources associated with the Chesapeake Bay. The Act authorizes technical and financial assistance for a series of gateways, trails, and other connections linking sites. The program also provides grants to federal, state, and local partners, non-profit and private entities to conserve and interpret the Chesapeake Bay. The Gateways Network sunsets in 2008.

### LIST OF RECIPIENTS OF THE DRAFT AND FINAL REPORT

The draft SRS/EIS was published in two forms: a 32-page Executive Summary and the complete 159-page draft study report. The Executive Summary, which contained complete descriptions of the study alternatives, was broadly distributed to the entire study mailing list, including county and local governments along the Chesapeake Bay. The full study report was mailed to the state and federal agencies and members of Congress listed below. Copies of both the Executive Summary and the full study report were also available on the study website <a href="https://www.chesapeakestudy.org">www.chesapeakestudy.org</a>.

U.S. Senator Paul Sarbanes, MD U.S. Senator Barbara Mikulski, MD U.S. Senator Arlen Specter, PA

U.S. Senator Rick Santorum, PA

U.S. Senator John Warner, VA

U.S. Senator George Allen, VA

Congresswoman Eleanor Holmes Norton, DC

Congressman Wayne Gilchrest, MD - District 1

Congressman Steny Hoyer, MD - District 5

Congressman Benjamin Cardin, MD - District 3

Congressman Dutch Ruppersburger, MD - District 2

Congressman Elijah Cummings, MD - District 7

Congresswoman Jo Ann Davis, VA - District 1

Congressman Edward Schrock, VA - District 2

Congressman Robert Scott, VA - District 3

Congressman J. Randy Forbes, VA - District 4

Americorps National Civilian Community Corps

Commander, Navy Region Mid-Atlantic

**Defense Logistics Agency** 

Federal Highway Administration

General Services Administration

MD Farm Service Agency

National Aeronautics and Space Administration

National Capital Planning Commission

National Oceanic and Atmospheric Administration

Natural Resources Conservation Service

US Air Force

**US Army** 

US Army Corps of Engineers

US Army Environmental Center

US Coast Guard

US DOT - Maritime Administration

US Environmental Protection Agency

USDA Agricultural Research Service

**USDA** Forest Service

USDOI Fish and Wildlife Service

**USDOI** Geological Survey

USDOI National Park Service

**US Marine Corps** 

**US Postal Service** 

MD Dept. of Housing & Community Development, Maryland Historical

Trust

MD Dept. of Natural Resources

MD Dept. of Business & Economic Development, Office of Tourism

Development

MD Office of Planning

PA Department of Conservation and Natural Resources

PA Fish & Boat Commission

VA Department of Conservation and Recreation

VA Department of Historic Resources

VA Tourism Corporation

VA Dept. of Environmental Quality

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#### Appendix A: Sub-Themes Associated with the Chesapeake Bay

#### THE LIVING NATURAL BAY

Geology & Formation of the Bay

Bay Geography & Topography

**Area Mineral Deposits** 

The Bay's Waters

**Estuarine Ecology** 

Tidal Wetlands

Natural Productivity & Abundance of the Bay

**Biological Diversity** 

**Native Plant Communities** 

Finfish & Shellfish

Wildlife & Waterfowl

**Bird Migration Patterns** 

**Natural Disasters** 

#### PEOPLES OF THE BAY

13,000 Years of Immigration & Diversity

History of Changing Societies & Cultures

Occupations of Bay Inhabitants

Heritage Tourism

Racial & Ethnic Heritage

#### SETTLEMENT OF THE BAY

Indigenous Communities

**European Exploration & Settlement** 

Africans & African Americans

The Built Environment of the Bay

The Growth of Regional Population Centers

#### AN ECONOMIC RESOURCE

Marine Resources Harvesting & Harvesters

Land & Mineral Resources

Agriculture in the Chesapeake Bay

Trade Relationships & the Bay

The Bay & Its Tributaries as Highways

The Evolution of Transportation

Shipbuilding

Throughout the Region & to & from the Nation

Recreation & Tourism in the Bay

Area Manufacturing & Industrialization

The Bay Economy in the Twenty-First Century

#### MILITARY & NAVAL PRESENCE

Battles & Impact of the Revolutionary War

The Chesapeake in The War of 1812

The Civil War in a Divided Region Bay Installations in Twentieth Century

Naval Ports & Military Installations

Naval Shipbuilding, Design & Weaponry

#### RECREATION & RENEWAL

Water Sports in the Bay

Fishing

Exploring the Bay's Terrain

The Bay in Art

**Decoy Carving** 

Birding & Wildlife Viewing

Heritage Tourism & Ecotourism

Regional Music & Folklore

#### STIEWARDSHIP & SUSTAINABILITY

Changing Perspectives on the Bay

Changing Attitudes & Behaviors
Living Resource Restoration & Protection

Vital Habitat Restoration & Protection

Water Quality Restoration & Protection

Sound Land Use in the Bay Area Individual Responsibility for the Bay

Community Stewardship Engagement

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Appendix B: Comments from Federal, State and Local Government Agencies and Nongovernmental Organizations

FOUNDATION ABELL HE

August 26, 2003

Mr. Jonathan Doberty National Park Service

410 Seven Avenue

Anapolls, MD 21403 Seite 109

Dear Mr. Doberty:

After reviewing your impressive website on the Chesapeake Bay Special Resource Study, we can't help but be energized by the visionary work behind the feature Chesapeake Bay National Water Trail. Such a plus couldn't be a better way to bring along the next generation of struwards for the Bay. Combining historic heritage with appreciation for the natural resources gleamed by viscate appreciates of bounds, be it in a replica of Organia folia Such a bound, etc., undoubted proprietes of bounds, be it in a replica of Organia folia Such as bound; a bound, etc., undoubted provers. The transit build life lifetime vencination. The current challenge to save the Bay is great, bourvers, the rewards for bringing more visition to explore the Bay from as "on-the-water" experience should prove to be a highly successful strategy.

Please urge decision makers to keep the future water trail high on the agenda.

Sincerely.

Sofalul Sita Culrean Vice President

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ETT Brade Calment Street Onto 1995 Bedingen, Ampleme ETBCS-6174 Program 410-10-1000 Fig. 100, 110-629-6278

ALLIANCE CHESAPEAKE BAY

August 11, 2003

Jonathan Dobecty
National Part Service
Chempeale Bay Frogram Office
410 Severa Average, Suite 109
Amagodis, MD 21403

Dear Jonethan:

I so writing to pubmit formal comments to the Droft Chesqueals Boy Special Resource Study (NES) and Bristonmental Impact Statement.

After careful review, it is the Allienos's position that Alexinsives B, C, D and E are all worthy of Starfar consideration and most desirable other ton many elements have considerable eart. The carrivomental, cultural and historical confiderable to the control of all four of these thanks are considerable eart. The carrivomental, cultural and historical content of all four of these themselves have made to offer in providing vicines with an intent of what the Champeathe Bay region is all about. At this time, the Alliance is not able to belowe enough the abstractive tour is it take to relacted combined clements that might make an intell

The one definitive perspective that we do have it that Alternative A - Today's Program with No New Initiative - it unaccoptable. The Alterno believes that belay's programs need to be made permaneral and that a new "Chempodal" researce which will help to further define the region needs to be established through the National Park Service.

In addition, as an adjunct to any transfy established Cherapoutts Bay resource, the Alliesce field that the National Park Service and Congress need to explore the national concept of a Also Ronalis Cherapoutts National Water Trail as has been proposed by the Countervision Pund and by the Changoraba Bay Foundation.

The Alliance winder to congratulate you und the other Austral Park Service staff who worked of the exceptional staffs. The throughfulness and theroughness of the smalyes as well as the detail provided for each of the scenarios confined give the render a wivid idea of the connects being proposed.

Please keep me informed as these proposals more furward.

20th Anniversary of the Chesapeake Bay Agreement

110 Medica 2007. 15. (2007) 15. ( 6600 York Road, Str. 100 Ballmore, MO 21212 (410) 377-6270 Fac (410) 377-7144



DEPARTMENT OF THE ARMY
ANTINOR OFFICE, U.S. ANT OFF OF ENGRESS
BALTMORE, MARTINED 21203-1715

REPLY TO ATTENTION OF

August 7, 2003

Planning Division

Director, Chesapeake Bay Program Office 410 Severn Avenue, Suite 109 Annapolis, Maryland 21402 Mr. Jonathan L. Doberty National Park Service

Dear Mr. Doberty:

Chesapeake Bay Special Renavee Study and Environmental Impact Statement. The comments provided below address the Corps areas of concern, including direct and indirect impacts on Baltimore District, Planning Division's comments on the National Part Service's Drugt The purpose of this letter is to provide you with the U.S. Army Corps of Engineers, existing and/or proposed Corps projects and proximity to and impacts on floodplains. Based upon our review of the draft report, due to the nature of the study, it is not anticipated that Corps projects within the region or the floodplains within the Chesapeake Bay watershed will be adversely impacted.

William D. Marin, b. Freehopen, D.

Location 1, Market

If you have my questions regarding this matter, please contact Ms. Kara Deutsch at (410)

Sincerely,



## to the Chesapeake Executive Council Citizens Advisory Committee

National Park Service 410 Severn Avenue, State 109 Annapolis, MD 21403 Jonathan Doberty

Kana I Abarreta

Cori C. Colo Feederging (X Section 1 hours Debrit 1 1 spek Berydand

FICION See A. Hospital Papear American Halls September 10, 2003

Dear Jonathan.

C Von Tet

The Citizens Advisory Committee (CAC) commends you and your staff on the efforts System make tremendous zerze and will advance partnership efforts to conserve and celebrate the Chesapeake Bay. Education and access should be important pieces of to explore a new unit of the National Park System focusing on the Chesapeake Bay. solicitating public connects. The Chesapeake Bay is a natural resource worthy of this type of study. Additional Chesapeake Bay resources within the National Park You have done a tremendous amount of work in developing the 5 options and your decision process.

options, our recommendation is a combination of Alternative B: "An Enhanced Checapeake Bay Grievasy. Network", and Alternative D: "A Checapeake Bay National Reserve". It is crucial that the Bay's maritime and rural heritage is protected, while sito establishing a permanent watershed wide system of places for our citizens to critoy and experience the Chesspeake Bay. CAC is formally submitting their comments per your request. In reviewing the five

Assister A. Tradugram Gregoria

We wish you the best of lack pulling the comments together to develop the study

Roy A. Hosgland, CAC Chair

Chies / When, J.

Cc. Secretary Taytoe Murphy, PSC Chair

Cc: Ellen Moyer, LGAC Chair Cc: Dr. Carl Herstarer, STAC Chair

John J. Trad C.W. Coordination 1600 Ford Josef (90 Bellinors, LD 1111 1911 (1912) Ford Stellunder cap

A Literary for The Chrospanie Hry

Organizational Comment Submitted via Website Comment Form

Comment from: Dwight Williams (Calvert County Parks, including 3 Gateways)

General Comments:

Comments on Attenuative A:

Current program is very good but new initiatives continue to breathe life into such a program and todays program is due to end in a few years

Comments on Alternative B:

At a minimum, this program should be made to be permanent to reflect the significance of the Chesapeake Bay and the importance a coordinated approach to educating future

Cerements on Alternative C:

Perhaps desirable but could likely turn into an over used recreation area. I could see public demanding access for jet skis and other power vessels and then you have a problem like Yellowstone with the snowmobiles.

Comments on Alternative D:

I view this attenuative as highly desirable as long as it does not replace the existing

Comments on Alternative E:

The Nature Conservancy and The Conservation Fund are better avenues to take on such a why it is important to protect these areas and maybe existing preservation programs like I view this as desirable but not as likely to become a reality. We need to educate people



# FAIRFAX COUNTY PARK AUTHORITY

12055 Government Center Parkway, Sulte 927 Fairfax, VA 22035-1118

September 9, 2003

Mr. Jonathan Doberty Director, Chasapeake Bay Program Office National Park Service

410 Severn Avenue, Suite 109 Annapolis, MD 21403

Dear Mr. Doberty:

In response to your request for public comments and based on the options given, Alternatives B or D would be the preferred choices of the Part Authority.

We support Alternative B with the understanding that the National Park Service would expand the current Gnieways program to be permanent with increased funding. The new program would include the construction of two major interpretive facilities within the Chesapeake Bay watershed, one to the north and one to the south.

representative of and reflect the bay's heritage — literating a picture of the past and preserving it for future generations to see, learn and approxime. A single interpretive center would be constructed that would be written the visitor with the learning tools for seeing and understanding a National Reserve concept recognizes and preserves the bay's maritims and rural agricultural berilage. Significant effort would be made to protect the traditional livelihood of bay fishemen. farmers and foresters, etc., by restricting urban sprawl to preserve the natural/cultural landscape.

The 'reserve' would be a smaller waterabed community within the bay that would be whole bost of lay therest and conservation issues. Subsequently, visiting various sites within the 'reserve' would bely the visitor reinforce their stewardship responsibilities. The partnership efforts with local, state and foderal government and the private sector would help to bring a clearer focus on the bay's conservation issues and inspire higher awareness and cooperation We also endorse Alternative D, which represents a bolder and more challenging approach. The toward protection and preservation of bay resources.

The Park Authority codoxes both attenutives, but would suggest Attenative D, since it offers the added dimension of a demonstration 'reserve' which enables the visitor to recognize the damatic differences between thoughtful conservation efforts and development patterns that threaten the heritage of the bay.

Yours truly,

Michael A. Kan

703-324-4706 • TTR 703-324-3958 • Online: www.faifaixcosety.gtv/jaafs • 6-mail: pathasil@faifaixcosety.gov

If accommodations study afternative formats fro headest, please call (703) 224-8563, at least 10 working days in advance of the registration beadine or event, TTV (703) 880-3354.



## Chesapeake Bay Commission

Policy for the Bay . www.chesbay.state.va.us

September 11, 2003

Mr. Jonathan Doherty

Chesapeate Bay Special Resource Study Director

National Park Service

Chrupeake Bay Program Office

110 Severn Avenue, Suite 109 Annapolis, MD 21403

Dear Mr. Doherty:

Thank you for the opportunity to comment on the draft Chesapeake Bay Special recognition of the Chesapeake Bay Commission wholebeastedly endorses the recognition of the Chesapeake Bay commission wholebeastedly endorses the recognition of the Chesapeake Bay and its watershed as unique minotal resource desaving of protection as one of America's treasured places. In flet, the diversity of the Bay's ecological, cultural and historical resources makes it difficult to ediect any one of the four "action attentatives" described in the Special Resource Study. For that reason, we could like to comment upon the focus; printities and goals that a Chesapeake Bay National Perk unit should incorporate to best advance pattheristic efforts to comserve and collabrate the Chesapeake Bay, regardless of the option selected.

As one of the partners in the Bay restoration, you are well aware of the political, fixed and technical challenges associated with statisting the constitutions outlined in Chesapeake 2000, our bkepprint for restoring and sustaining the Bay's ecosystem. The creation of a Chesapeake Bay National Part unit would provide invaluable sustained in meeting these goals. In particular, the Commission recomments that technical and financial assistance be directed toward the following components, to be included as important features of any selected alternative:

- Lend conservation
- > Habitat restoration and protection
- > Enhanced interpretation, education, and stewardship opportunities
- Increased public access to water resources
- Support for the use and demonstration of best management practices for reducing pollution and improving water quality

Headquates o Mayland Office to west street, suite 200 - ameajolls, md elfor 'front 410.263, 410 - 1813 fto 181938

Virginia Office P.O. BOX 406 -RICHMOND, VA 15118 Phone Boa.786.4149 - Pax Toq. 371.0059

- Principlesia Chies 1711, B. Propt 57. - Karrishurg, Pa 1710a Phone 717-15ratos - Far 717-15rat

By focusing national attention upon the inherent beauty and abundance of the Bay and its rich cultural and historic values, a National Park Service unit would also educate and motivate visions to protect this unique resource. As part of the experience of visiting and exploring the Bay, the Chesapeake Bay Commission supports the concept of a Chesapeake Bay National Water Trail tied to the 400<sup>th</sup> anniversary of the founding of Jamestown and the expeditions of Captain John Smith. In the mix of alternatives considered under the Special Resource Study, such a trail would be inked to the Bay's existing water trails and Gateway sites. The Chesapeake Bay National Water Trail would all an important dement to any successful national part for the Bay region.

We appland your efforts to date to flesh out the image of what a Chesapealee Bay National Park might took like and what it would offer in terms of recreation, education, conservation and stewardship. The possibilities are quite exciting and the Chesapeake Bay Commission looks forward to commissing our close working relationship with you end our other Bay partners in working to ensure long-term enjoyment and livelihood pleasure to work with you.

incerety

Robert Bloxom, Chairman Virginia House of Delegates

rell Stottafus, Vice-Chairman Senate of Manyland

Augh Thurkith Rus Fairchild, Vice-Chairman Pomisylvania House of Representatives



# CHESAPEAKE BAY POUNDATION

Environmental Protection and Restoration Environmental Education

August 21, 2003

Mi. Jonathan L. Doberty, Director Victional Part Service Oceapeate Bay Program Office 410 Servera Avenue, Scrip 109 Avengedia, MD 21402

Dear Mr. Doberty:

Please accept data leans as our individual comment upon the newly released Casespeake Bay Special Recommends. Study, and it is none recent set of stransfers for consideration by the public toward the creation of a component of the National Park System. We have previously priced together with the Commercation Pleast and the National Cooperation Society up promote the idea of a sational water that as a component of a new material park, and of course study by the entire comment. This is term is immeded to discuss other powerful amonoment. As you know, the Chesappeate Bay Foundation (CBP) is the largest non-profit organization in the region working towards the treatments of the Bay. For more them thinky years and now with more than 110,000 members. CBP has observed the people and policymarkers about the Bay, and beliefed to cealings action on what is needed to save it.

In order to save according, you must first love it and accord understand it. We believe that bringing the Mistonal Park System to the watershot would be a great boon to, shough of course it not a satellites for, the critical on-going efforts by the public and private souther to reduce unrivers it sports. The Bay is a great and recognized sational treasure. Unlike Youngstor or the Grant Coryco, however, it has no substantial single or thoused internstant might discourable the stational purity system, deficient to the presence for the sentional party system, deficient to the presence for the station is chineses, forward to consider cruenting such a presence for the branch of all the station's chineses.

As NPS has moted to deat, it may to that no single, extendy identified alternative has all the defences increases. To these create has been constant better deserved (ctr.). Interpreting a 20th mile-bong entancy within a 64,000 square mile setterated (ctr.), interpreting a 20th mile-bong entancy within a 64,000 square mile setterated settleting the concentral of complete are retrieved problems, 640 years of restant administry and forestands or years of beauting presented its large of the deserved of difficult and dementing prespection. Vost various alternatives capture most of the elegences of what a minimal part or reserve might look like (again, we think a national ware trail could enhance these compropers).

Components of virtually all the action alternatives seem promising. Alternative B. an Enhanced Gatternary Meword, Châternay to the Consequents by National Part and Reserve of or Preserve)? Justine the apportunity to harde the Bar's vest reach and veriety of place and theme, by algorificantly singroving the networking among series.

This Martin Batanament Cont.

bracked of interpretive and access points throughout the watershoot and enhancing the existing praeauce with conserved buy landscapes and at least two noteworthy interpretive centers. (A National Water Trail would fit shouly as well, connecting the stready existing efforts.)

Providing the opportunities to conserve viable furm and forestand, along with watermen's communities (parts of Alymanive D's "Reserve"), to undertake and demonstrate extensive babitat restoration work, not to obtain the visiting public about the conservation between man and water over the constrate, see all useful At the same time, protecting and providing actual and interpretive access to some reasonably large wants are and istands, as would be accomplished develop. Administive C's "Balancy National Park" (soch as in Biscarpne Bay, Broids), might be mother imported compounds, presentation or combinations of some against an extension or some analysis or combinations of some against extension as well as aborelize confugion and learned commission within range of the major water area (or along an entire data fributary, such as is escorpassed within Alternative E, the "Broingieral and Cultural Presence.") is a faired important element in a potential national part presence. components of this part of the vision.

First governance and management would need to mix cooperative coordination among various private and public land-overst (and if expanded Gateways are part of the context, with Cateway partners), with active estatements and restourish and restourish and children and federally controlled

In sure, we believe that central to the Chengoske Bay sutdouts park concept is the interverving and interpretation of history, culture, concenty, and environment the conservation sed naturation of important representative parts of the water and less in the watersheet, and the important is access, both physical and whether the process in the physical and white the property content and sites. Additionally, a rational water that located work as a solid addition to the concepts and components assed shows.

Please endestrand that you have our unnot support for moving forward in this process. We believe that the establishment of a National Part of some that in the Chespealer Bay would said immessamely to in some serving uniform the visit of the contract of a National Part of some that in the Chespealer Bay would shelp promote substrately to in some serving uniform the product would be promote substrately of and activation to the Part's different problems, and would seek in the different near of immeriting and providing scenes to the Part's different problems, and would seek in the different near of immeriting and providing scenes to the Part's different problems.

Villian C. Bater

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Sourne Burbarn A. Milbeleki, Maryland Sourice Paul S. Suthenes, Maryland Sourice Reids Sourices, Permytyania Sourice Adea Sporter, Permytyania Sourice Googe Allan, Virginia Sourice John W. Weners, Virginia

Organizational Comment Submitted via Website Comment Form

Comment from: I. Katherine Magrader (Queen Anne's County - Chesqueate Expioration Center)

#### General Comments:

am interested in where you might locate a CB Interpretive Center and how accessible? visible it would be to the public.

an concerned that targeting just one river or one island would render the rest less special sometow, Neither would an assembled "babitat" represent the diversity of the watershed environent or cultural landscape execpt in the most artificial way.

It may be necessary to have an assemblage of sites which brings you back full circle to Option B. would ask NPS planners to start with the interpretive themes or cultural stories that need to be told about the Bay or somehow preserved, and flesh out projects that would accomplish that goal.

Like the vaninghing Skipjacks and oyster industry,

the migratory waterfowl that were once abundant in the waterabed, the colonization of the nation through the various Ports of Entry towns, etc.

Plants for the opportunity to comment

Comments on Alternative A:

Comments on Alternative B:

Particularly Maryland Heritage Areas program. NPS Concresys could support interpretive Rather than trying to find just the right site to re-invert the wheel. Sites like Eastern Nect. work and collections management at sites like the Chesapeake Bay Maritime Museum or and Blackwater could be targeted for improved interpretive programming. NPS could the Chesapeake Exploration Center or Chesapeake Bay Environmental Confer, etc. This seems to be most compatible with all other efforts and initialives underway. market this network, as it does now.

Comments on Alternative C:

Comments on Alternative D:

Comments on Alternative E.

RE: Comment Deadline on Bay Study Coming Up

Jonathan Doherty (CIMS)

Monday, August 18, 2003 12:49 PM

Subject: RE: Comment Deadline on Bay Study Coming Up

Child Metag

Pres: Jonethan Doberty (CDAS) [mailto: Dobesty@CHESAPEAKERAY.NET]

To: GATEWAYS@LISTSERY.CHESAPEAKEBAY.NET

The study outlines attenuatives for how the Maximal Park Service might

- on-line through the study weeks at www.ahesspeckentudy.org

thetis are due noon. If you've already submitted comm Per l

410 Severa Avenue, Suits 109

110 267 5725

Amstolis MD 21403

Page 1 of 1

Katherine Magnuder (KMagnuder@qac.org)

Jonathan Doherty (CIMS)\*

1-set comments but wast to said set icond NTS operate a service to provide transporation from wines size on the boy to othera as interpreted tours? This would namege scores and impacts and make the Boy itself nonewhat the part. Could have a base of operations at the Manpone Manpone Manites Count on Kest Island to well as other sizes around the Bay?

Quora Azne's County Department of Buriness & Tourism (410)404-2109 ftg. (410)604-2101 l. Ketherine Magrader, Director CS Placy Nazonas Road Charter, 160 21619

Sent: Friday, August 15, 2803 3:01 PM

Subject: Comment Deadline on Bay Study Coming Up

Phone remember to submit your comments on the Chemponia Bay Special

Resource Study by Priday August 29.

before beth conserve and calciume the Chesapenian Bay, Some silemetives address the Chesapenic Bay Galerrays Newton, Your opinions are important

You can sebanit comments:

- via condito apartarly/dichesapesischer act · by mail or fac to the address below

Acordian Doberty

Director, Chesepeate Bay Program Office National Park Service

Chespoole Research Consonium, Ioc. 645 Concess Wharf Road Edgeware, MD 21037 (110):783-123 (110):783-123 (110):783-123 (110):784-1200 (110):784-123 (110):784-1200 (110):78



The Johns Hopkins University University of Marytand Smithens in Institution The Calego of William & Mary The Anadorsy of Wittens Sciences Old Dominion University

21 August 2003

Director, NPS CBPO 410 Severn Avenue, Scrit: 109 Amerolis, MD 21402

Dr. Jonethan L. Doborty

Van Dr. Doharty

I just compieted the Excentive Summary of the NPS Special Resource Study on alternatives for an expanded NPS Chesapealto Bay program. I found the summary contenting on justices as with the majorites of the internatives presented in the Summary event more intriguing and promisibly, the alternatives presented in the Summary event more intriguing and potentially ofter the regional research and an insequence contramelies extelled opportunities for expanding restorative efforts in Bay seem that might be included in whichever alternative the NPS selects in move forward on over the north several years.

Our organization, the Chesaposite Research Consortium (CRC), is a partnership of six major research institutions in the watershed (see encioners) with specific goals to expend major research institutions in the watershed (see encioners) with specific goals to expend management constantity in an archerological processes and transfer for expenditure of regional encangement constantity in an archerological sensor to senis in formalistics of regional encangement published bened on some science. As our haddenes on benin-wide processes in the sit, land, and water, exemplified by the one-going project that includes the INFS and served of our meador includious ("Chesaposite Wearched Cooperative Exceptions Savoral of our meador includious ("Chesaposite Wearched Cooperative Exceptions of our meador includious ("Chesaposite Wearched Cooperative Exceptions of our meador includious ("Chesaposite Wearched Cooperative Exceptions of our could provide critical sites and only for outcasts and outcastion of part visitors to the Bay's indicate, living resources, and outlands for a patentially implemented over the next several years to address Chesaposite Bay.

The CRC therefore encourages adoption of Alternatives C or E. Atternative C, the Battary Part, would provide sine for critical sessenancial of effectiveness of marine resource protected ensists or person ves for several important brides assemblages life SAV and he searched frame (travery ground, 'svitup) as well as option reach and than featural assemblage. Text on p. 15 specifically refers to these two groups, but these are

-Comment, NPS Chesapeake Bay-

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actually assembleges of the 'fragile' species and the fame they support, ingredients of a diverse, healthy, and productive estuary. Further, marshes that border the Banary Perk would provide similar field sites for the investigation of marsh-mediated matrical management, particularly if the marshes bordered a variety of different lead sean. I would returnate that he research community of the CRC and the larger regional community would especity work with the NPS in designing, establishing, and monitoring MPAs or preserves for these two assembleges, across the Estuary Perk so as to insure replication and comparative analyses; similarly, assessing marsh-bordering lead use impacts on narrient fitness into the estuary could be realify completed. The results, in turn, would benefit the greater community in definitig successful approaches to restoring valend resources and potentially faster adoption of the approaches across the matrice of the waterned equality that might be set up a the context, value of the MPAs, preserves, or marshes ought he brandent across the aumoreus and education context of the valuedary, femaliarizing our citizens with the practical ways to bring our manures best decough responsible, focused management and the brands of the valuedaris, and sestioning.

mentions for exploring a large sension of pressing problems is our basis, and therefore a sension statement of a member of processes overned by lead use and soil conditions on one side of rigarian strips, for example, and haracteristics of creeks under one land we pettern versus other land was peasible in the crivities, tosds versus soil municat contest and local hydrology (surface and subsurface), notomology, and fartilizer application could be flather assessed, a large problem for the rigions in the field and the interpretive/education center, and using the visual experience vaterabed, it would be possible to flather retine and quantify land use impacts on easay comprehension of reducing statutest encidences to our estrophic waters. The practices, stire watershod. Efficiencies of Box Mangament Practices in agricultural and nonprocedures, and results associated with all of these studies could be viewed by Park especifity likely possible in today's web-based society, provide real-time output and Alternative B. Watershed, offices the same options at the snowth of the creek or niver cutering the larger estimy. However, estuarine sites might be mose limited due to reduced acrospe of given estimation made the system extends from the estuary to benduraters of the vaterathed. The militity gradiest provides a suite of land-water reportent processes could be investigated in the Watershod. For example, directly become field studies of feeder creeks in the watershorts, comparing to see such imiliar systems of the wateraked. For those areas with prodominantly agricultural prioritural hand uses count also be determined, a large deficiency in our repienal receiving waters on the other. Beend on the cited dependence on a material of memorarement plan (p. 27) perhaps to charited by interested retearchers, entirely histribution across the be

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Comment, NPS Chesapeake Bay-

As you are aware through the "Chesapeake Weizrahed Cooperative Ecosystem Study Unit" project focusing on integrated ecosystem management, the CRC institutions have developed removaned research expertise in a mamber of the awas I reflectmed above and hence, we through the CRC volunteer to assist the MPS as it moves forward in the development of science-based management plans and associated field research efforts to explore some of the topics outlined. Many of our inving resources and habitats are compromised in the Bay and its many tributary watersheds and NPS parts developed in the estuary or a watershed would provide excellent controlled sites for rigorously assessing restourish hydrology, meteorology, soil characteristics, and land use, could be monitored through time and managed change, providing invaluable information for effective management through the other watersheds of the larger basin.

Please consider these recommendations as modest but important means for acience-bear management and assessment in the expanding NPS options for the Chesaposke Bay. I can visit with you at your convenience to discuss some of the areas I have outlined as well as identify researchen in the regional community who would engarly help you and the NPS as your program moves forward. The NPS abstractives would be excellent opportunities to further restore our increasingly debilitated Bay.

Respectfully,

King Of Me.

Kevin G. Sellner Executive Director

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SK SK

## Chempento Research Consortian

#### CRC MISSION

The Chesposto Research Consortism, Iss: supports meetrd, education, and service activities in the Chespostic Bay region, its vestorated, and the Middle Attentic Bight. Partier, CRC may support programs and projects whose findings or activities can be liaised to issues or problems throughout the basin.

The Chesepeake Research Consortium is an incorporated, non-profit essociation of aix scademic and research institutions from the Chesepeake Bay region. Established in 1972, the CRC represents the Academy of Natural Sciences of Philadelphia, Old Dominion University, Soniftenesian Institution, The Johns Hopkits University, University System of Maryland, and Virginia Institute of Marine Science. As an association of some of the most active research content in the U.S., a primary goal is to ensure continued long-term support for basic and applied research for coastal issues, from land-based westershed considerations through rigorous investigation of water quality and living resources in its squaric eccorptoms. Of equal importance to the CRC is the incorporation of these research results into management and policy decisions for the Bayy its tributaries, its surrounding lands, and the birch that inhabilit the system. CRC is committed to familiarizing public officials from local, state, regional, and reform attrastance water to management of alternatives for managing our resources, to direct inclusion of the research results in management of our furnational waters and inving resources. Through this focus, CRC engerly identifies critically neceded research fro our most agents and provides an overview of the regional research expertise for guidding public policy decisions.

CRC has historically encouraged new research indintives, from the nirabod, through the waterabed, to tidal and non-tidal waters of the Bay and its ributanies. This has included expanding information enchange through workshops, colloquis, publications, the internet, and vidcos at the horal, regional, and national level. It administers the Scientific and Technical Advisory Committee of the Chesapeake Bay Program, ensuing delivery of expert opinion on all topics pertinent to the system. It maintains a Fellowship Program, bringing in bright, enthusiants staff to assist the Chesapeake Bay Program in many overeight and policy making activities as well as ensuing professional development for the next generation's decision makers. Through collaboration with other institutions and programs, such as the Sca Grant institutions in Maryland and Virginia, it expands community knowledge and furthers representation of this knowledge in many management groups in the region, from individual jurisdictions to regional advisory boards. In summary, the CKC not only seeks continued research in the Chesapeake waterached but is a regional resource to ensure the transfer of this accumulating information to those in the regional jurisdictions required to manage our art, lands, and waters.

...

Dr. Kevin Sellner, an active researcher in plankton ecology in the Chesapeake and other coastal environments for over 20 years, currently directs CRC activities from its base in Edgewater, MD. Sellner is strongly dedicated to providing and translating recent research results into comprehensible information for public officials. As a former researcher in the region, Sellner is familiar with most institutions and the research community, the State and Federal agencies and familiar with most institutions and the research community, the State and Federal agencies and the scientists and public officials active in the area. As an oceanographer, Sellner interprets Bay issues with a multi-disciplinary and ecosystem approach, acknowledging the interdependence of land, water, and almosphere processes and socio-economic demands in regulating water quality. dynamics, and stocks of the Bay and its tributaries. His rapport with the research community and Pederal and State agencies and a strong willingness to assist in providing critically needed new information for management of all coastal resources ensures that the CRC will expand public management opportunities to include new, innovative alternatives based on state-of-the-art

Besides its administrative role for the Scientific and Technical Advisory Committee and its own Fellowship Program described above, its staff includes an experienced modeler familiar with the Boopath with Boosim (EWE) modeling software, and brance a regional resource for development and application of a Chesapeake Bay EwE model of great importance for multispecies fisheries management. It is also oversceing an extended partnership between 20 organizations and advancements for freshwater submerged aquatic vegetation (Freshwater SAV Partnership). It's largest and newest effort, the Chesapeake Community Model Program, has been implemented to the modeling activities of the Cheapeake Bay Program, thereby providing model code for Besides the expertise housed in the researchers within the member institutions of the consortum. the CRC is providing a number of services to its members and to the larger regional community. institutions in the region focusing on expanding research and restoration technology compile and, via the web, distribute models of the Bay, its watershed, and lands to complement system hydrodynamics, the food web, and surrounding water and airsheds. As a user friendly resource for the region's research and management communities, these models will offer opportunities not only for expanding research in these areas but addressing impacts of various management decisions on the system and its environs.

The CRC and Dr. Selliper can be contacted at any time to provide information, suggest experts, or assist regional officials in developing future policies dependent on inclusion of the most current scientific information. The CRC member institutions have the expertise and commitment to clearly identify critical information for most decisions impacting our regional environment through its extensive multi-disciplinary research expactly. As a regional and national resource, research within the CRC member institutions is unsurpassed, highly recognized, and supported.

For specific information on the Consortium or its ability to assist regional researchers, managers, or policy teams, please call 410-798-1283 or 301-261-4500 or explore our website http://www.chesapeake.org.

Kevin Sellner, Ph.D., Executive Director, Chesapeake Research Consortium, 645 Contees Wharf Road, Edgewater, MD 21037. sellnerk@si.edu



September 17, 2003

Mr. Acnathun Dobberty
Divestor, Chestpeake Bay Program Office
National Park Service
410 Serven Avenue, State 109
Ammobile, MD 21400

Dear Jonathan,

Thank you far the opportunity to comment on the abstractives confined in the Druft Chesspeaks Bay Special Resource Stady and Environmental Impact Scienters. I have outlined my comments and suggestions in the enclosed document. If you have any questions, or if you need more information, please contact me at 410.767.6236.

Sinoarty, Marci Wolff Ross Marci Wolff Fors Resources Development Manager Maryland Office of Tourism Developme

nacion.

laryand Office of Testian Dividgement, 117 East Redwood Street, of Floor, Behinson, MD 21222 Feb. 410 NJ-3403/Web www.mdwakom.com

#### COMMENTS AND SUGGESTIONS ON ALTERNATIVES QUILINED IN THE DRAFT CHESAPEAKE BAY SPECIAL RESOURCES TUDY AND ENVIRONMENTAL IMPACT STATEMENT

#### Comment on Alternatives:

Having reviewed the five Alternative concepts outlined in the SRS, the Maryland Office of Tourism Development (OID) recommends a combination of Alternatives B and C as the preferred methodology for how the National Part System might best represent the national significance of the Chesspeate Bay. These two Alternatives, when combined, offer the best long-term opportunities to enhance the criticing efforts to conserve resone and celebrate the Bay. The results of this action would provide visitors with a variety of pulmal experiences and it would provide the PRS and other stakeholders with the greatest opportunity to educate the public to the importance of the Bay as a cultural and resonere.

From an infrastructure standpoint, Alternatives B & C provide the physical and intellectual connections that best express the significance of the entire watershed. While the enhanced centerways betweet reaches for beyond any one site, it ments a "crown jewet" such an Estuary Park directly on the Bay to complete the overall product mix it has to offer. The Estuary Park is the one from which the entire identity of the Network would extend because of its water-based location and it's role as an interpretive/onexation, coses.

In looking at Alternatives D & E, they, too, could become the "arows jowes!" in the Gattways Metwork but in the long star, they do not have the identity impact as that of the Estuany Park. Additionally, each element of these Alternatives is eligible for designation onto the Gattways Network thus resulting in a collection of Gattways that could ultimately accomplish the some of the same objectives.

## Editorial Comments and Recommendations on the Draft Study:

5

- Page 25 Add more "-ing" activities to Recreational Opportunities such as Bilding.
   Hilling and Wildlife Viewing, as is the list seems incomplete.
- Page 23, first paragraph, and Page 31, second to last paragraph Each refers to Chesapeate 2000 but on page 23 it says 94 goals and on page 31 says 93 commitments. This is confusing... goals or commitments?...94 or 93? Or are these really two different things adding up to a commission of 187 goals and
- Page 45 Existing Units of the NPS Does not mention the Potomac Heritage
  National Scenic Trail or the Network To Freedom but there is considerable overlap
  physically and potential overlap interpretively. Should there be some mention in the
  study of these two initiatives? Maybe include them in the frothodes.
   Page 51 Change to Change also harpretive and Orientation Centers. In
- users is going to be at least half (if not more) of what these centers will do.

   Page 87, fourth paragraph, seventh sentence change "war" to "Civil War"

thinking of the vast expanse of the watershed and ultimately the Network, orienting

- Page 91, last paragraph, second sentence missing some states or the wording is
  - awkward
- Page 97, Visitor Use add "international" to the end of the first sentence in both the
  first paragraph and third paragraph. Instead of local, regional and out-of-state, may
  want to use "domestic" as an alternative. Second sentence, first paragraph, change to
  "In this context, tourism and visitor use may be misleading..." As written, the
  language is misleading, or worse, untrue.
  - In All Alternatives, add to both NPS and Partner Roles where applicable, actions that
    focus on marketing and measuring performance. For NPS Roles, editorial could read
    something like, "Coordinating with state and local organizations to market (Network,
    Park, Reserve, Preserve) to visitors and to measure the economic and other impacts
    as a result of increased visitation to the area." These performance measures will go a
    long way in attracting partner dollars to construct Interpretive/Orientations Centers.

17.16.3



#### UNITED STATES EWARONMENTAL PROTECTION AGENCY REGION III 1650 Arth Straft

1650 Arch Street Philadelphia, Pennsylvania 19103-2029

Mr. Jonathan Doherty Chesapeake Bay Program Office 410 Severn Avanue, Suite 109 Amarpolis, Maryland 21403

RE: Draft Chreapeake Bay Special Resource Study and Environmental Impact Statement CEO#

Dear Mr. Doherty:

the future welfart of the Bay. EPA believes that it is paramount that the Chesapeake Bay receive some effort be made to modify Alternative B the Enhanced Gateways Network to include a more the Clean Air Act (CAA), EPA has reviewed the Draft Chesapeake Bay Special Resource Study (SRS) and Environmental Impact Statement. Based on our review we have assugned a rating of the No Action Alternative (Alternative A) can individually or collectively support and enhance traditional NPS recognition/protection or combine Alternative B with another Alternative which National Park Service Chesapeake Bay Cateways Network in FY 2008 would be denimental to why EPA firmly supports the implementation of any individual or combination of Alternatives LO (Lack of Objections) because we believe that all proposed Alternatives (B, C, D, E) except http://www.epa.gov/compliance/nepa/comments/ratings.html. We wholeheartedly agree with the statement on Page 66 of the SRS, "The future of the Chesapeake Bay hangs in the balance it's loss of biodiversity and abundance is symbolic of a national and global pattern". Which is In accordance with the National Environmental Policy Act (NEPA) and Section 309 of recognition through designation under the National Park System. Therefore, we believe that EPA's Chesapeake Bay Program efforts to restore water quality and living resources of the B, C, D, and/or E. We clearly feel that Alternative A with the loss of the funding for the Chesapeake Bay. The EPA ranking scale can be found on EPA's website provides the Bay with a NPS designation. EPA believes that given the programmatic nature of the Draft SRS/EIS, the document provides an excellent overview of the expected environmental impacts. As with any programmatic EIS, after the Record of Decision selecting an alternative(s), EPA would like to participate in the review of finare NEPA documentation for airs specific activities as appropriate. Site specific project level impact analysis may require more detail than provided in this programmatic EIS on some resource issues whether provided in an EAFONISI or an EISROD for a particular project. Some examples are provided in the technical comments for your consideration on future documentation.

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In closing, each of the alternatives (B, C, D, E) specifically highlights a key quality or resource found within the Chesapeake Bay Watershed. While individually these alternatives can provide a benefit to the part of the watershed, implemented collectively, they would ultimately bring protection and enhancement to all the pieces and link the natural, cultural, aquatic and lerrestrial resources of the Bay Watershed.

Thank you for providing EPA with the opportunity to comment on this document.
Detailed comments are attached for your consideration. If you have any questions regarding our comments, feel free to contact Ms. Denice Rigney at 215-814-2726.

Sincarely,

Villiam Arguto William Arguto

## EPA Technical Comments Draft Chesapeake Bay Special Resource Study and Environmental Impact Statement

The Chesapeake Bay Program Office (CBPO) is offering the technical comments below in an effort to facilitate a coordinated review of the NPS Chesapeake Bay Resource Study DEIS.

The Park Service has undertaine a systematic Study Process in developing both the Purpose and Need Statement and its proparing a draft study with alternative concepts. The passion they have developed provides the reviewer with sample information and a clear factual has for understanding the document. The rigonous outreach afforts NPS undertook (outlined in pages 38-40) have ensured that the alternatives encompass an impressive range of options, and each is supported with ample compute. The National Park Service is to be complimented for a thoughtful and comprehensive effort.

#### Alternatives Analysis

The DEIS evaluates several alternatives to gather feedbook about whether the INPS should include some portion of the Chesapeake Bay as a unit of the Park Service. The draft document is programmatic, describing the general elements that would be included in various afternative scenarios. Should a preferred alternative be selected, the INPS would be expected to provide the appropriate INEPA documentation for project proposals providing specific details and a more complete analysis of expected impacts (an obligation explicitly recognized by INPS on p.11). As the authors note, identifying the environmentally prefreable alternative is difficult "locause the conditions, and viriations levels, which have not been determined at this point of the study" (0. 11). Given the conceptual nature of the current dealt, however, it provides an excellent overview of the expected servicemental impacts. Similarly, it provides a thorough mastysis of alternatives, including the "ho action" alternative (Alternative A: Todoy's Programs - No New Initiatives) which is a continuation of the NPS's current Bay-related activities.

### Environmental Consequences

As the authors note, Alternative A (Today's Programs - No New Initiatives) has the potential to provide adverse impact, as this does not provide for the continuation of the Gateways Notwerk beyond 2008 (p. 101). This program facilitates conservation and education Notwerk beyond program for a limited time. This Alternative does not failful the perpose and beed.

Each of the "action" alternatives has clear environmental benefits. Alternative B (An Enhanced Cherapeate Bay Gateways Network - A Pernament Flatershed-wide System of Special Bay Places for Experiencing the Cherapeate) is different from the other action alternatives in that it would not technically be lebeled as a unit of the National Park Service (p. 41). If this proposal is chosen for implementation it may require an assessment to determine if additional

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3

gateways may retult in increased adverse environmental impacts to the Bay watershed. Other issues that might be considered in a NEPA document for the implementation of Alternative B are discussed in the sentences below. For example, will there be construction of new partnership interpretive centers (a question raised on page 102)? Will new water trails be developed? Might these activities increase turbidity, harm to submarged equatic vegetation, shortline encoin, or other detrimental effects that may accompany bost access areas? Because the Gateways are designed primarily for "low-impact" activities such as educational/interpretive displays and activities such as tenosing and kayading, these adverse effects would likely be minimal, but a more complete analysis of impacts would be appropriate. Such an emplying might include information essential for an effective review, e.g.,

- Total number and location of Gaseways antidipated in the expanded Network
  - Total musher and expected concentration of Ontewny users
- Are new Cateways sites currently in use and they are menely becoming part of the Network? Or are they new sites? Both?
  - Will Gareway sites have a common set of Best Management Practices associated with them? What will they be?
    - Will the expanded Gateways Network attest new users to the Bay and its fributaries? How many?
- Will additional infrastructure be needed to accommodate the expanded Network?
  Will near-shore facilities be designed to minimize shoreline and water quality invesses.

A coherent Network of Gatoways that have taken advantage of numerous enisting sites has the potential to add oducational, cultural and recreational opportunities to Bay visitors, while the least impact to equatic resources. EPA encourages that this alternative to use existing sites over new construction. A Network that brings Best Management Practices and a stewardship edicio sites across the Bay regional would likely even have a net positive impact on the environment, but more death in needed on the nature of the Network and the potential camplative environmental impact of the various gateway sites.

All of the remaining alternatives would appear to raise some of the same issues, but all would likely have an unambiguous environmental benefit. Each would require a more detailed analysis of any new facilities that might be built to support the interpretive and cultural exhibits and vision content activities. Typical impacts that will need to be analyzed include those generally associated with a construction project including potential impacts on wetlands. floodplains, water resources, terrestrial impacts, historical and cultural resource impacts, traffic, etc.

Generally speaking, however, the alternatives that would result in an additional unit in the National Part Service demonstrate clear curiromnessed advantages (Alternative C. (Chetapente Boy Schuary National Park - Conserving and Exploring the Boy's Water, Alternative D. Chetapente Boy National Reserve - Protecting Boy Maritime & Rural Heritage, and Alternative E. Chetapente Boy Watershed National Ecological and Cultural Preserve - A Living Example for the Boy and the Nation.

A National Park (Alternative C) would preserve a selected location, providing the special protections normally afforded these sites. Water quality and living resources (from cysters and crabs to fin fish and SAV) and terrestrial resources (e.g., forest, coestal vegetation, nootropical

4

bird, and water birds), would likely improve in a Park serting (pp 102-103, 106-107, 110-111, 114, ). Alternative C has the possibility of a new visitor's center versus use of an existing structure (p. 102). As with Alternative B, the EPA suggests that the encouragement for these alternatives to use existing structures should be part of each of those alternatives.

Additionally, Alternative C could minimize impacts related to wave action by instilling a no-wake policy (p. 103). Also, by reducing use of vehicles or encourage low emission boat engines for boat tours, air quality impacts could be reduced (p. 114).

Even more significant environmental improvements would be expected from Alternatives. D and E. Because these abtenuives recognize the importance of how activities on the land import water quality, the benefits to the affected waters are likely to be even more beneficial than National Part status. Naturally the benefits to local landscapes would also be heightened (see pp. 103-116).

Alternatives D and E especially support the Environmental Protection Agency's special mission concerning the Chesapeake Bay. For 20 years the Agency has supported a special Bay Program Office in recognition of the special status conferred upon this unique area. The alternatives amountally support BA's primary mission of protecting our air, water and lanck, and doing so in a manner that fosters stewardship of our resources. In addition, these alternatives around support to many of the key commitments made in the multi-static/agency landmark Chesapeake 2000 (CZK) Agreement. That agreement calls for vital babitat protection and restoration, including the Bay watershed and forests. Alternatives D and B are especially responsive in this area. Similarly Alternatives C, D and E would enhance Bay water quality, a keystone commitment in the CZK Agreement (although presumably the affected areas in options D and E would be significantly larger than that in option C). Fostering stewardship and community engagement are encompassed in all the alternatives, but again, especially in Alternatives D and E.

Finally, Alternatives D and E provide direct benefits in another C2K category; sound land use. Both of these options are predicated on the understanding that activities on the land dramatically influence water quality and the living resources found there. These options provide the clearest extemple of bow the human interplay of commence and daily activities can be harmonized with the Agency's lofty goals of protection human health and the environment.

### Environmentally Preferred Alternative

The NPS identifies Alternatives B, D and E as the environmentally preferred alternatives. The document indicates that Alternative C probably provides fewer environmental benefits than the other action alternatives, largely based on the assumption that it is smaller in scope and regional context (p. 145). If the Expanded Gateways Network (Alternative B) is only slightly larger than its current configuration, however, it may not rise to the level of Alternatives D and E. Similarly, although it is unifiely, an expansive Bay Estuary National Park (Alternative C) on the order of the Biscayce Bay National Perk's 173,000 seres, night provide environmental benefits that approach those of the National Reserve (D) or Ecological and Cultural Preserve (E), even with its overwhelming focus on the aquatic system.

### Recommended Preferred Alternative

The EPA Chesspeake Bay Program Office recommends Alternative E, in combination with Afternative B as our recommended alternative. The Cateways Network provides tremendous benefits to be Bay currently that should be continued. However, Alternative B alone would not fulfill the purpose and need statement. Alternative B in combination with the National and Ecologicial and Caltural Preserve (Identative E) would provide the continuation of termendous benefits that the Chesspeake Bay currently experiences with the added benefit of the establishment and maintenance of a more watershod-based model to fulfill the Chesspeake Bay. Program vision. EPA whole-beardedly agrees with the author statement. The future of the Chesspeake hangs in the balance-ris loss of biodiversity and abundance is symbolic of a national and global pattern. [Alternative E] response directly to this challenge, by setting an example for conserving and illustrating stewardship of an entire inhatary system (p.66). As has been established among several scientific expects representing government, academia and non-profit organizations arross the Bay to community, improving the ecological conditions of the Bay is an urgent need.

There can be little argument that Alternative D would also meet the Purpose and Need statement, provide exceptional environmental benefits, and be in keeping with the aggressive efforts attendy underway to protect and preserve the Cherapeake Bay. The Preserve and Reserve concepts are therefore appropriately identified as among the anvincementally preferred determined argument of the retare limited Estaury National Park (Alternative C) described in the conceptual descriptions. While Alternative B is combination with Alternative B is our preferred alternative. Alternative B is combination with alternative B or events and peed for the proposals.

#### Editorial Comments

- Page 18, last paragraph. Strike the word "waterabed" in this securance: "Approximately 2,700 species of plants have been inventoried in the Chesqueate Bay waterabed." 2,700 is the number of plant species inventoried in Bay waters, not in the waterabed. Page 77, next to last paragraph replace 600,000 acres with 200,000 serres, replace 41,000 with 38,000 acres and 1978 with 1984 in this sentence: "Historically, 600,000 acres of Bay grasses grew along the aboveline; only 41,000 acres remained in 1978." 38,000 acres in 1984 is the low point for SAV surveys and 225,000 acres is the revised estimate of actual acres of grasses that may have existed. 600,000 acres represents an old estimate of
  - potential labitat for gausses not potential acres of grasses.

    Page 77, next to last paragraph Replace 69,000 with 85,000 acres and 2000 with 2001 in this scatence. "...the area of SAV had increased to 69,000 acres by 2000." The most recent survey results are 85,000 acres in 2001 (and we will have 2002 results at the end of Aurent)
- Page 79, accord paragraph recommend using acres instead of hectares for funest lead cover (for consistency, since the rest of the document refers to acres).
- 5. Page 80, Table 5.5. Add the subheader "Reptiles" in front of Caretta caretta. (Tarties are not fishes as indicated in current iteration of table).
  - Page 81, first paragraph (after table) Replace "It" with "The nitnegen oxide (New) auxbod". This slinched size and discussion is specific to the NOn ninthed. Airsheds for other polluteurs have different sizes.
- Page 87, "Post 1959 and Bay Restoration" section consider aching into from the STAC Chesapeake Futures report related to the increase in fertilizer use post-World War 2.

Much of the Bay's degradation since the 1950s has been attributed to this increase in

- limeframe, the number of boureholds in the beain increased...?. The timeframe should paragraph, it is not clear by simply stating "during the same timeframe" whether you Page 91, last paragraph - missing some text between "Virginia" and "Commission" Page 92, last paragraph - Specify the timeframe in this sentence: "During the same be 1970s - 2000. Since you also discuss population growth through 2020 in the
- Page 93, Table 5.2 this table can be updated. Contact Brian Burch, EPA, 410-267-5736 or Peter Claggett, USGS at 410 267-5771 for most recent data. mean 1970s - 2000 or 1970s to 2020.
  - ndicates that lot sizes actually began to level off rather than continuing the upward trend imply ment sentence with "In Maryland, the everage lot size...". Also, the info featured while land consumed for residential development increased 66% between 1973 and 1997. Page 93, first paragraph, first sentence - strike "One enample of this is" and "where and Strike the fact three scattenees in this paragraph as recent data is not able to confirm that trends related to low-density development between 1973 and 1990 still exist. 2000 data ater on can be updated. Maryland population increased 35% between 1970 and 2000 seen through the 70s, 80s and 90s. ≘∦ =
- shaly refers specifically to the Chesapeake Bay watershed) in this sentence: "....55% of Page 93, second paragraph - Recommend replacing "the" with "a" (unless the national the sprawl in the watershed, and population growth was associated...?

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## FAIRFAX COUNTY PARK AUTHORITY

12055 Government Center Parkway, Suite 927 Fairfax, VA 22035-1118

September 9, 2003

Director, Chesapeake Bay Program Office National Park Service 110 Severn Avenue, Suite 109 Mr. Jonathan Doberty

Annapolis, MD 21403

In response to your request for public comments and based on the opitions given, Alternatives B or D would be the preferred choices of the Park Authority. Dear Mr. Doberty:

We support Alternative B with the understanding that the National Park Service would expand the current Gatiways program to be permanent with increased familing. The new program would include the construction of two major interpretive facilities within the Chesapeake Bay watershed, one to the north and one to the south.

farmers and forestors, etc., by restricting urban sprawl to preserve the natural/cultural landscape.

The 'reserve' would be a smaller watershot community writin the bay that would be representative of and reflect the bay's heritage - liter taking a picture of the past and preserving it for fitture generations to see, learn and appreciate. A single interpretive center would be constructed that would provide the visitor with the learning tools for secing and understanding a National Reserve concept recognizes and preserves the bay's maritime and rural agricultural heritage. Significant effort would be made to protect the traditional livelihood of bay fishermen. We also endorse Attenuative D, which represents a bolder and more challenging approach. The whole host of bey themes and conservation issues. Subsequently, visiting various sites within the 'reserve' would help the visitor reinforce their stewardship responsibilities. The parmership clearer focus on the bay's conservation issues and inspire higher awareness and cooperation efforts with local, state and federal government and the private sector would help to bring a toward protection and preservation of bay resources.

The Park Authority endorses both alternatives, but would suggest Alternative D, since it offers the added dimension of a demonstration 'reserve' which enables the vision to recognize the dramatic differences between thoughtful conservation efforts and development pations that threaten the haritage of the bay.

Yours truly,

Michael A. Kane

Sirector

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If accommodations analyze abstrative formats are needed, please pail (700) 524-5563; at beast (3) reviting days in advance of the negotiation deadline or event. TTY (703) 903-3334

1607 - 2007

#### FRIENDS OF THE CHESAPEAKE BAY NATIONAL WATER TRAIL

Retracing the Voyages of Captain John Smith

July 1, 2003

Mr. Jonathan Doherty

Chesapeate Bay Special Resources Study Director

National Park Service

Chesapeate Bay Program Office

410 Severn Avenue, Suite 109 Annapolis, MD 21403

.

Dear Mr. Doherty:

Thank you for the opportunity to comment on the National Park Service's recent Chesapeake
Bay Special Resource Study. The Chesapeake Bay is indeed a spectacular national treature—
rich in cultural, natural, historical and recreational resource—end should be recognized for its
kingular expression of our outdoor heritage. It is long overdue that this extraordinary resource, as
grand as Yellowstone or Yosernite, be included in the National Park Service system.

Capturing the diverse resources, stories, and themes of the Chesapeake Bay within the National Part system, is no small challonge. While the five alternatives proposed in the Resource Study included many important attributes that will advance conservation efforts for the Bay, we believe there is one additional component that will significantly cahance any path relected by the National Part Service. A Chesapeake Bay National Water Tiral would leverage and strengthen many of the proposed park concepts including Bahanced Gazewaya, Reserves, and Preserves.

Water truils, one of the nation's newest and most popular ways to enjoy the outdoors, provide paddlers and sailors with opportunities to travel rivers, streams and coastlines. Like greenways on land, write trails, also known as blacways, are corridors. Condensity and length contribute to their value to bosten. A Chesapeake Bay National Water Trail, with connections to the rivers that surround the Bay, would allow veryagers to travel from the distant headwaters to the open Bay—an accomplishment that would make a modern explorer provid and an opportunity that would generate national participation. Inseressing the water trail network within the Bay region is one of the goals of the Chesapeake Bay 2000 Agreement.

Our three organizations, each deeply committed to the Cheaqueake Bay, have joined together in an unprecedented partnership to sest at the National Part Service to do more in the effort to conserve the Cheaqueake Bay. We believe that a National Water Truit, that is part of a new

national park system, represents a singular opportunity for us to restore and conserve the Bay's watershod and interpret this unique eccosystem to the world. Indeed, it represents a new model of public-private partnerships that will form the basis for how we care for our national tressures in the 21st Comm.

Attached is a draft concept paper that further explains this idea and a draft trail map that is one possible route for the trail. We look forward to working with the National Park Service as we create a Chesapeake Bay legacy worthy of fature generation.

7/8/

William C. Baker

Chesapeake Bay Foundation

Litt Homen Gilbert M. Grovesnor

Catalonal Geographic Society

Panier Nomen

The Conservation Pund

CC: Fran P. Mainelle, Director, NPS

Organizational Comment Submitted via Website Comment Form

Comment from: Carol Steele (Gloucester Beach Park - Town of Gloucester VA)

General Comments:

political concerns with aquisition and any restrictions put on land users or apprearance of I am concerned about the Bay and appreciate this effort. I beloive there will some restrictions. This may make approval of some alternatives difficult.

We are a Gateway site and want to the see the program authorized permanently. I would like the existing sites and resources to be promoted no matter which alternative is selected

Comments on Afternative A:

'n

Comments on Alternative B:

Comments on Alternative C:

Comments on Attenuative D:

Comments on Atternative E:

September 16, 2003

Denne of Directors Broand W. McCroy, Jr. Oneres

Mr. Jonathon Doherty National Pack Service 410 Seven Avenue Amapolis, MD 21403 Suite 109 J. Robert Histo, it.
Provident Histo, it.
Provident History
Provident History
Provident History
May I. Marros
Was Provident
Older C. Uppfor, III
Therent

Dear Mt. Doherty:

alternative listed in the Chesapeake Boy Special Renouves Shop and the options that it presents. RA supports "Alternative B: An Enhanced Chesapeak Bay Casternaya Network" as the best spoint on unities estabing resources of the National Park Service and Network" as the best spoint on unities estabing resources of the National Park Service and no provide an effective means to educate the public and further concerns the Chesapeako. The James River Association (IRA) would like to wrice our support for a specific Say's natural resources.

Phones States Sillingly

R. Mantage Boyd

R. Mantage Boyd

James B. Coddin, I.

James J. March

Thomat G. Scott

March

While the other abarratives svaliable offer certain merits to consider, Alternative and diverse components of the Chesapeake Boy. Not only do the Network partners obtains the partners seek that the converse Bay institute activity with the converse Bay institute for setting the contract of B would take an attracty-extensing and effective resource, the Chempeako Bay Galaway. Network, and establish it as a permanent facture in the Netional Park Service to conserv the resources of the Bay. The current Galeways Network, computed of bundeeds partnered museums, parks, and water trails throughout the Bay Wetershook, alreaprovides a federal funding source and a Wetershook-wide method to highlight the vario conservation of resources in order to restore the Chesqueshe Bay. We support "Afternaufive B: An Rahmsond Chemposite Bay Gatomays Network" as the most visible and effective attenuative in the Chemposite Bay Netword Resource Study. Should you have say further questions, please feel free to contact an at 804) 730-2898 or at gaschyon@ismeschensesciation.org.

Advitory Commettee Cohm 21, Aboot W. Ease Cappell W. Ease Cappell W. Ease Cappell Day Bank, M. Eage H. Cheman, PhD Bank Bank, M. Eden D. Berrine Eage H. W. Edoy Carby R. Low Gods V. W. Edoy Carby V. Morenz, PhD Cappell V. Morenz,

WARS BIYER ASSOCIATION + F.O. BOX 909 MECHANICSMILL, VIRCINEA 23311 (804) 230-2598 + (804) 730-6297 F.X. + email: infolloment-respectation og

## THE IZAAK WALTON LEAGUE OF AMERICA

August 26, 2003

Mr. Jonathan Doberty

Chesapeake Bay Special Resources Study Director

National Park Service

Chestpeaks Bay Program Office

410 Severn Average, Suite 109 Amenpolis, MD 21403

Dear Mr. Dobarty,

comment on the draft Chesquedre Bay Special Resource Study. The League considers the Chesquedres Bay a reacurce of great national signifectness relating the well-known National Parks. On behalf of the B-CC Chepter of the leask Welton League of America, I are writing to of the American west.

run the length of the Bay and link orieting and future water trails on the rivers that feed the Bay, Such a trail, roughly retracing Captain John Smith's explorations of almost 400 years ago could and weitinds and support each of the Chespeatn Bay Special Resource Study attenuatives. A Outway Communica and its rich variety of historic stites, wildlife refuges, purts, greenways water trail is a marked interpretive trail along a stretch of creat, river or shoreline with public sreas that include historical and ecological information for the paddler and small bouter sailor The creation of a new Chesapeate Bay Mational Water Thail would be together the Bay's would foster greater access and provide a means for low-impact vastation. involving communities, non-governmental organizations, public agencies, businesses and private private perturning that will form the busis for how we care for our enternal treasures in the 21st protection to the Bay, but it will also toster enhanced understanting of the national againstance Contary. The Longue believes that not only will the National Water Trail add mother layer of andowners, in establishing the Water Trail would demonstrate a new model for the publicA Chesspeake Bay National Water Trail following Captain John Smith's expeditions would be a crucial element of any amonestial national park for the Bay region and should be added to the final Chesepeake Bay Special Resource Study.

President, B-CC Chapter

NUTCHUL OFFICE

## THE IZAAK WALTON LEAGUE OF AMERICA

August 19, 2003

Mr. Jonathan Dobarty

Chempeake Bay Special Resources Study Director

National Park Service

Chesapeake Bay Program Office 410 Severa Aversus, Suite 109

Amapolis, MD 21403

Dear Mr. Doberty.

Chesqueite Biy Special Renound Study. The League considers the Chesqueite Bay a resource of great rational atgnificance rivaling the well-known National Parks of the American west. On behalf of the lasak Walton League of America, I am writing to comment on the draft

Such a trial, reagally retracing Captain John Sinish's explorations of almost 400 years ago could run the length of the Bay and link carating and future water trails on the rivers that feed the Bay, and wellings and support each of the Chesapeaks Bay Special Resource Study afternatives. A Geteway Communities and its rich variety of historic sites, wildlife refiges, parks, greatways water trail is a marked interpretive trail slong a stratch of creek, river or shoretime with people ment that include historical and ecological information for the paddler and small boater egiter. The creation of a new Chesqueate Bay National Water Trail would be together the Bay's rould foster greater access and provide a means for low-impact visitation. involving communities, non-governmental organizations, public agencies, businesses and provins private particularies that will form the basis for how we care for our national transmiss in the  $21^\alpha$ protection to the Bay, but it will also leave enhanced understanding of the ambieral significance Century, The League believes that not only will the National Water Trail add another layer of indowners, in establishing the Water Irail would demonstrate a new model for the publicof the Bay. A Chempedit Bay National Water Trail following Captain John Smith is expeditions would be a crecial element of any accessful national part for the Bay region and about the added to the final Chempeate Bay Special Resource Study.

Paul W. Hamon

Executive Director

707 Conservation Law Gelffeirfoug, Mayband 29076-2903 Phone (201) 548-0150 Fax (301) 548-0190 KATICHER, OFFICE

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THE IZAAK WALTON LEAGUE OF AMERICA

lugust 26, 2003

Mr. Jonathan Doberty

Chesapeake Bay Special Resources Study Director National Park Service

Crespeake Bay Program Office

410 Severn Avenue, Suite 109

Annapolis, MD 21403

Dear Mr. Dobarty,

On behalf of the Narphibase Chapter of the Izaak Walton League of America, I am writing to commount on the draft Chesapeake Bay Special Resource Study. The League considers the Chesapeake Bay a resource of great national aignificance rivaling the well-known National Parks.

Such a trail, roughly retracing Captain John Smith's captorations of almost 400 years ago could run the length of the Bay and link existing and future water trails on the rivers that feed the Bay, Generary Communities and its rich variety of instocic sites, widdlife refuges, parts, groowways and wetlands and support each of the Chesqueiro Bay Special Resource Study sherantives. A water trail is a marked interpretive trail along a stretch of creek, river or choretime with public areas that include historical and ecological information for the paddier and small boater sallor The creation of a new Chempeake Bay National Water Trail would be together the Bay's would firster greater access and provide a means for low-impact visitation. Involving communities, non-governmental organizations, public agracies, businesses and private private partnerships that will form the basis for how we care for our national treasures in the  $21^{\kappa}$ Contary. The League believes that not only will the National Water Trail and another layer of protection to the Bay, but it will also foster enhanced understanding of the national aignificance landowners, is establishing the Water Trail would demonstrate a new model for the publicA Chesapeate Bay National Water Theij following Caytain John Shaith's expeditions would be a created element of any successful national park for the Bay region and should be added to the final Chesapeake Bay Special Resource Study.

Sincerely,

President, Navphibase Chapter

797 Conservedon Lane rg, Maryland 2067-1293 Plane (201) 549-0150 Frz: (201) 548-0146 E-razil: general@hole.org

heren Ollows

## THE LEAAK WALTON LEAGUE OF AMERICA

August 26, 2003

Mr. Jonathan Doberty

Chetipeake Bay Special Resources Study Director National Park Service

Chempeake Bay Program Office 410 Severa Avenue, Suite 109

Amepolis, MD 21403

Dear Mr. Doberty,

writing to comment on the draft Chesapeules Bay Special Resource Study. The League considers the Chesapeuke Bay a resource of great national significance rivaling the well-known National On behalf of the Norfolk-Chesqueate Chapter of the least Walton League of America, I am Parks of the American west.

Such a trail, roughly retracing Captain John Smith's explorations of ahmost 400 years ago could run the length of the Bay and link cristing and future water trails on the rivers that fixed the Bay, areas that include historical and ecological information for the paddler and small bonter eather. Getoway Communica and its rich variety of historic sites, wildlife refuges, parts, greenways water trail is a marked interpretive trail along a stretch of crosk, niver or shoretime with public and weddends and support each of the Chesaposite Bay Special Renounce Study attenuatives. The creation of a new Chesqueake Bay National Water Thail would the together the Bay's would fister greater access and provide a means for low-impact visitation.

protection to the Bay, but it will also faster coherent understanding of the automal aignificance Involving communities, non-governmental organizations, public agencies, businesses and private private partnerships that will form the basis for how we care for our national treasures in the 21st Combay. The League believes that not only will the National Water Trail and smother layer of andowners, in establishing the Water Trail would demonstrate a new model for the publicof the Bay.

A Chestpeaks Bay National Water Thail following Captuin John Smith's expeditions would be a concisi defended of any successful rational park for the Bay region and should be added to the final Chesapeate Bay Special Resource Study.

Douglas Johnson

Sincerely,

President, Norfolk-Chesapeake Chapter

TI Chorine

## THE EXAME WALTON LEAGUE OF AMERICA

August 26, 2003

Vir. Amathan Doberty

Clesspeake Bay Special Resources Study Director

National Park Service

Chespocate Bay Program Office

410 Seven Avenue, Suite 109 Amendia, MD 21403

Dear Mr. Dolbarty,

Chesapeake Bay a resource of great national significance rivaling the well known National Parks On behalf of the Sportsman's Chapter of the Izaak Welken Leagus of America, I am writing to common on the draft Chempeake Bay Special Resource Study. The League considers the of the American west

Such a trail, roughly retrucing Cuptum John Smith's explorations of almost 400 years ago could run the longth of the Bay and limit cristing and inture water train on the rivers that feed the Bay Geterry Communities and its rich variety of historic sibs, whillife selupes, parls, greenways and wateness and support each of the Chasapeate Bay Special Resource Study afternatives. A eress that include historical and codogical information for the publica and small board sailor. water trail is a marked interpretive trail along a stretch of creds, river or shoretine with public The creation of a new Chesqueske Bay National Water Trail would be together the Bay's would foster greater access and provide a means for low-impact visitation. brolving communities, non-governmental organizations, public agracies, businesses and private protection to the Bay, but it will also feater cultanced understanding of the national significance private partnerships that will form the basis for how we care for our national treasures in the 21. Contury. The Longue believes that not only will the National Water Thail add mother layer of indowners, in emphasizing the Weter Trail would demonstrate a new model for the public-

A Chesiposka Bay National Water Trail following Captura John Smith's expeditions would be a crucial element of any encessful autional park for the Bay region and should be added to the final Chesapeake Bay Special Resource Study.

Sincerely,

President, Sportsman's Chapter

RATIONAL OFFICE

## THE IZAAK WALTON LEAGUE OF AMERICA

Angust 26, 2003

Vr. Jonathan Doherty

Chesapeaire Bay Special Resources Study Director

National Park Service

Chesapeake Bay Program Office

410 Severn Avenue, Suite 109 Antepolis, MD 21403

Dear Mr. Dobony,

Champeake Bay a resource of great national agmitteness rivaling the well-known National Paries On behalf of the Virginia Division of the limit Walton Longue of America, I am writing to comment on the draft Chesapeaks Bay Special Resource Study. The Longue considers the of the American west

rm the tength of the Bay and link existing and fiture water trails on the rivers that freei the Bay, Such a trail, roughly retraining Captain John Smith's explorations of almost 400 years ago could Geterray Communities and its rich variety of historic sites, withlife referen, parts, grounways and wellands and support each of the Chempeako Bay Special Resource Study attenuaives. A steas that include instanced and crological information for the publics and small boster sailer. water trail is a marked interpretive trail along a stretch of creek, river or shoretime with public The creation of a new Chempeake Bay National Water Trail would be together the Bay's would firster greater access and provide a means for low-impact virilation. ferniving communities, non-governmental organizations, public agencies, businesse and private private partnerships that will farm the basis the tors we care for our national treatmen in the  $21^{8}\,$ protection to the Bay, but it will also faster enhanced understanding of the national significance Contury. The League believes that not only will the National Water Trail and another layer of andowners, in establishing the Weter Trail would demonstrate a new model for the public. of the Bay.

A Chestpoake Bay National Water Trail following Captain John Smith's expeditions would be a crocial element of my successful national part for the Bay region and should be added to the final Chempeake Bay Special Resource Study.



President Varginia Division

707 Conservation Land Galthersburg, Maryland 20279-2041 Florate 20415 she et se Florate 20415 she et se E-mail: general/florate.org

Thursday 8/28/03

Abe 1 of 6

OXS

TO: Jonathan Doberty, Cheaspaake Bay Frogram Office, Fortheast Region, Fattonal Park Service

PROM: John Creighton and Pat Lewis. Many Rivers Community History Metwork, 375s Spingside Read. East New Market, MD. 21631 (Phone 416-943-4368)

RM: Your request for written comments in response to the Draft. Chasmonks Bay Special Resource Study and Snykronmental Impact Statement published in June 1863

One of us (John Creighton) spoke brisily with you last depressely and selected traveling exhibit was in Cambridge at the Ballwinds Visitors Center. Since then, we have roceived and reviswed your Draft Study.

In Cambridge, you suggested that we present our comments in written form, which we are now doing, our comments can be organized in terms of these three questions:

1. Why is a full-fledged "national park" not one of the four "action alternatives?

2. For each of the four "action elternatives" which you define and devalop, why do you virtually ignore the 19th century scotal history of "the cultural environment" in the Chesapanka region [superially the pariod of growing sectional conflict between the War of [812 and the Civil Mar)]

3. May is there not more attention to the preservation of nettonally significant historic places (historic landcapes and bistoric sites, and not just historic structures) which sight be of species interest to African Americans!

NEMO RE: DAATT CB-888, 8/28/83

Page 2 of 6

#### QUESTION 1

Nay is a full-fledged "national park" not pine of the four "action alternatives"?

### COMMENTS CONCERNING COMSTICK

We believe that one of the "aution alternatives" which you should conceptualite its a "autional park" -- plain and simple (in terminology, at least). In other words, there needs to be an Alternative 7 (a full-service Mational Park),

What you call a "Chespeake Bay Sstuary Metional Park" (Alternative C) would seem to be just one variation of a more basic "Chespeake Bay Mational Park" idea or concept (Whetever its specific name or wherever it sight be!

Another conceptual variation might be a "Chesspeake Bay Mational Historic Park" (whetever its specific name, which presumably would be based on a specific historic thams or themse?

C Lat

In any case, such ideas as an "estuary national park," historic astions park," etc., see just parkitchiar variations of a root concept. i.e., a "Chesspeake Bay Mational Park" with a host of conventional connections in the mind of the svarage person. So what set the places and almoses of this "larger idea" of a "Chesspeake Bay Mational Park" (whatever its specific name)? Have we overlooked your asswer in the Draft Study?

Even if, on belance, you don't scruelly favor the idea of a Chasapsake Bay "national park" or Chasapsake Bay "national park" or Chasapsake Bay "national historic park" (oriented around a specific theme or theses), you should at least present for comparative purposes the more basic "national park" concept (and not )ust the "estuary mational park concept, and state the prom and cons -- just as you have done and B).

In Salisbury lear September a specific proposal for a "Harta frhean Hational Park" was submarted to you by an ad no committee in Eavor of sudo a park. That proposal took into account the relevant HF Grifferla for a national park "national admiffence." suitability," and "deashbility") and certainly deserves a specific written response/analysis. (For Chapter 1 "Gp Analysis" down the submittee is a suit and supplied why one of your Draft Study "artion alternatives" is and a full fledded national park:

MENO RE: DRAFF CB-888, 8/28/83

Page 3 of 6

#### QUESTION 2

For each of the four "action alternatives" (concepts) which you desine and develop, why do you vertually thoughes the 19th century social history of "the cultural environment" (sepecially the pariod of growing sections confilt the baried of growing sections (181)

## COMMERTS CONCERNING QUESTION 2

During this time period, a "herdening of the attitudes" obviously occurred in the collective mind of the Chesepeake white population. This shift in opinion sease to roughly orderlate time-wise with a growing "underground railroad" szolus of englaved African Asariesns (an arcodus having national political implications) just before the Civil War.

There are many books and books-in-prodess which deal with the political, economic, and social history of the Chesspeaks region between the War of 1812 and the end of 19th century. One such book is <u>Slavery and Freedon On the Middle Ground. Marvland</u> Dixing the 18th Cantury by Barbara Jeanne Fields (Tale University Press, 1885). All of these books deal with the complex and tradic reality of the severaly distorted political, according, and social relationships between black and white Americans in a Border State during that time paried, Not until the modern civil rights movement - beginning effect world Mar II and still not complete - did this matters when beginning the besiden civil complete.

In this regard, it seems worth emphasizing that during the pariod battean the War of 1812 and the Civil War, about half of the openio who lived in large areas of the Cheespeake region were African Americans.

Your use of "gap analysis" is intriguing, and is relevant to what we are seving. To the heet of our knowledge, there is corrently no "netional park" which devotes itself to explaining the uniquely American struggle for freedom from elevery in all of its Border. State complexity.

This complexity includer (a) the large-scale salling of ensisted African Americans to the Deep South; (b) the difficultte-quantify exodus of ensisted African Americans via an 'undesground rallroad' to the Borth; and (c) the coping and

MENO RE-DRAFT CB-SRS. 8/28/03

Page 4 of 6

survival attitudes and skills of the African Asericans who remained in the saritine Chesspeake region.

We believe that there should be a Karrist Tubmen Chesspeake Bay Rational Park deviced to preserving the landscapes and sites of this Border Earse social arrugale which is of great national (and even interreational) bistorical significance. Can there be any better place for such a park than Maryand's central Bastern Bhore? In our ophico, to even discuss the idea of a new Hational Park unit in the Chesspeake Bay area and not include some indepth ineights about this important and sensitive issue is a service and glarido chassion in what is generally a very interestine Deat Study, the time to discuss this matter is at band. Please don't waste this egolden opportunity Don't let the Dorcharter Caroline Harrier tubman(MR historic area become a candidate to be world bariage site before it gets serious consideration by the Chesspeake Bay Program Office the U.S.

#### QUESTION 3

Why is there not more attention to the preservation of nationally significant historic places (historic fluodecepes and historic sites, and not just historic Arrican Americans) which might be of special interest to

## COMMENTS CONCERNING QUESTION 3

The completion next year of the RPS Harrist Tubman Special Resource Study presumely will identify certain historic landecapes and historic sites in Dorobester and Caroline Countee that might be both (e) maintenily significant and (b) of special intefest to African Americans.

In addition, the publication within the next year of two of several adult-oxioned mass-warkets blogtsphes of Harrier Thbann presumebly will help explain the national significance of certain 19th century historical events in the centural featorn fibers, where many of the radwant landscapes today are still very stallar to wife was the case 150 years mgo (generally minus the man-made atructures, of course).

PIMAL TROUGHTS

These historic places are wary near or along (or along tributaries of) such beautiful Estern Shore tivers as the Big Blackwater, Little Blackwater, Big Choptank, Tuckahoe, Little Choptank, and Essitoke, As you will know, these tivers already are tourist attractions simply because of their inhepelt seathetic qualities.

structures (which are generally structures of people of wealth) and of seathetically pleasing landscapes (regardless of their bistorical significance). But there also needs to be a parallel focus on the preservation of certain landscapes and sites where significant historic events occurred (regardless of whether there new exists a bistoric events occurred (regardless of whether there new exists a bistoric errocture). In the case of such historic landscapes without structures, the onlooker with a Baedeker-like In any case, your Draft Study could help address a more general probles concerning the preservation of historic places. The mainstream focus seems to be on the preservation of historic dagree "witness" the socioeconomic history of the place being bistories's quidebook and an active insgination can to some

Checapeake Bay entronmental movement and the Checapeake Bay regional historic preservation movement. There are many reasons for this under-representation. In any case, it seems obvious that catalyst for a Harriet Turmen Chespeake Bay National Park on Maryland's Scetern Shore. Such a national park would being world-wide attention to both (a) the nationally significant historic events that occurred here 150 years ago and (b) the deteriorating condition of the Chesapeake Bay as a whole. the creation of an ad hoc, long-term alliance between several types of civic-minded people - including historical preservationists, historically minded environmentalists, and heritage-minded African Assircans -- could became a powerful African Americans are under-represented in both the

NOTE: There are many possible combinations of names for such

a dual-focus national park; for example, the Rarriet Tubman Chesapeake Bay Rational Perk, the Chesapeake Bay Rarriet thoman Methonal Perk, the Tubman Chesapeake Retional park, the Chesapeake Retional park, Blackwater/Choptank Rational Park, the Marriet Tubman Blackwater/Choptank Rational Park, etc.

positive force in preserving certain aspects of the Chasapeake mystique. But simply to enhance this network after the year 2008 (i.e., Alternative B) will be worthly insufficiant to build national support for significant funds to deal with the still descained condition of the Chasapeake Bay wrestabed. In other words, to simply he in favor of Alternative B will be "too little too late" to truly "save the Bay." 2. Regionally, the MPS Gateways Hetwork is a growing

Chesepeaks Bay Special Resource Study and those persons primarily interested in the Harriet Tubmen Special Resource Study. God works in systerious ways, and a marriage of these two interest groups seems inevitable. Why not sooner rather than later? intersection between those persons primarily interested in the 3. As soon as possible, there needs to be some serious

Page 6 of 6

Organizational Comment Submitted via Weboite Comment Form

Comment from: Mary Marsh (Maryland Conservation Council)

The members of the Maryland Conservation Council voted on September 13, 2009 in Prince Frederick, Maryland to recommend the selection of an Enhanced Chesapeake Bay Gateways Network (Alternative B) with a Chesapeake Bay National Reserve (Plan D) the National Park Service concerning the Draft Chesapeake Bay Special Resource Study.

MOC agrees with the NPS study that when evaluating for the environmentally preferred

Alternative B provides conservation, interpretative, educational and public access benefits over a broader scope and regional context (watershed wide) than the other

improvements, MCC requests that any new integractive contens reuse existing buildings or previously used building sites in appropriate developed areas with preference given to sites outside the critical area. Cure must be taken that any "gateway site" does not To further reduce any impacts due to construction of centers and associated segatively affect the local community.

In addition to Alternative B, establishing a Cheapeate Bay National Reserve would complianest the NPS unit and would incorporate land conservation strategies so provide habitat for the restoration of the Cheapeate is native wildlife and fisheries.

hank you for the opportunity to review this study and add our recommendations to it.

Sincerely,

Maryland Conservation Council 495 Bay Green Dr. Amold, MD 21012 Mary P. Marah, President mmarch@olembus net 110-757-5913

Comments on Alternative A:

Comments on Alternative B:

Comments on Alternative C:

Comments on Attenuative D:



#### **BUILDERS ASSOCIATION** MARYLAND STATE

193-A Green Street • Aprilia Political 21401-2501

Battimore & Anapolis 416-269-0109 . Toliffre increase 200-622-2604 Fra 410-763-0078 E-enail: kanchaph@ndsraedwilders.org

ROSELNT PURCESS. DIRECTORS.

August 28, 2003

BOARDOF

Jonathan Doherty
National Park Service
Chesapeule Bay Program Office
416 Severan Avenue Suite 109
Amagods, MD 21401

JEPS ARDPAYAS I ESLIE MISSION Dear Mr. Doharty:

MERCHASE RUSI: COMPANY Representations

On behalf of the Maryland State Buildons Association, representing 2400 member firms statewide, I am pleased to submit comments on the Chesapeates Say Special Resource Study. MSBA supports Attensible A: Today's Programs No New Initiathes, as outlined in the Bescutine StannaryHewisetter 3 document. The justification for our support of no additional or expansion has one of the NPS in the Bay wethershad is because of the ourset and use constaints their effect the eccormodation of nocessary growth both within and outside of the westershed; the fiscal or constaints of the State of Manyland shoel jurisdictions, and the potential for compremining local submornty of land use decisions. There are existing programs in place in Manyland first provide for conservation and preservation of valuable recover burds both hades and outside of the Stay waterwards which are monitored by the Chesaposes Bay Program. Additional mechanisms for these efforts are not necessary and any program that attowe ederal oversight of local land use decisions in imagnophiste.

LANDLINCE SCHAFFERT

RECHTHOMETA ADMINISTER.

DAVE WALTER

BUTH GORNALL

CHARL DESTEFAND

TOWNSHIRE

The NPS Cheespeaks Bay Gateways Network is operational and funded through 2006 and should confline to be the partners one of the NPS in the overlanted. There is no compacting reason that is the execution autumny to conclude that this program is not working or is inadequate to serve the needs of

KATHLEENI, MAHIICH Escuine Von Prauden Diverse, Legitaire Affier

AKNAKO METITI Mangaban Past Pendem

MEMBER ASSOCIATIONS

Lasers Stors Buildors Apprehées Products County Builder Association

Attenuatives B-E at include requirements for publicitarives land exquisition without details about the Modern ingelizing constraints that would result in such authout details about the Modern details of the state of after a countries. Note of the alternatives outlined in the executions continues or

ime frames for inspiranceusion. from Builden Association of Marytani

Thank you for your consideration of these comments. Horar Bailders Association of Wapers Haryland

**Lugue 28, 2003** 

Jonathan Doherty National Park Service Chesspoolee Bay Program Office 410 Severn Avenue

Annepolis, MD 21403 See 33

Re: Chemposite Bry Special Resource Study

Dear Mr. Doheny:

The undersigned representatives of Maryland herrings area bordaring on the Cheuspeake Bay suborts the following continents on the alternatives are fresh in the current draft of the Cheaspeake Bay Special Resource Stody.

First, we wish to constructed this fine effort. The evolution of the ideas considered, from the early conceptual alternative to the five we have before us, shows careful thought and consideration. All of these abstractives upper to be workship, and most would enhance the public's understanding and apport for the Consporte Bay Program's environmental mission and other baritage-related initiatives. That said, of the stated alternatives, the signatory berings areas endone Alternative B with modification. As noted in the study, this alternative expends and exchanges the Casaspacks Bay Gatoways Network it would said an emphasis on concervation by proving solutions between which passages programs for furthings were trust in the concervation of designated celemeny water trust) and match the program permanent with Missional Part Service. This program is of significant benefit to many this constitued which our horizage strust, exporting our efforts to enhance interpretation and the visitor experience in relected were of Maryland. We do believe, knewney, there is room for a stronger, cancer definitive working partnership between Gateways and the Maryland and thereign was the brinking the Bay. The would further enhance excentration and interpretation. For example, working form, forced, serving and when inchanges which not having serves and correctly excluded in the Netwart on said do provide risk vision; experiences by setting the context for exploration of the resources, themes and stories of the Bay region.

If Abermative B is chosen, we would urge that NPS consider saming the Network as a tust to ensure permanent funding on an equal basis with other NPS units. We would also respecifiely augment that the administrator of the Network be recognized within the NPS as a superinceader, which would also raise the stems of the Network which has NPS. In addition, we have a concean should be designation of 'portst' interpreter size for "hostimar and "hostimestern" incurious With the shape of the Bay and accessibility imited from east to even and the distance from south to south, we wonder if it is possible to serve the vision's issochastory interpretive seeds with only two such size. We would bope, at least, to see that the size abreaty recruited to orient the vision is the Cateiverys system records a boost from the NPS to sackress this seed.

We offer another concept that could be implemented in partnership with the Chesapeake Bay Gatemays Network or as a separate attentiative—a Chesapeake Bay Nathanal Beritage Area.

We suggest that designated berings area with a significant genetice connection to the Bay be linked under the national marketing same "Chesapeans Bay National Heritage Area," specifically sufficiently and order schooling the control of the connection of specific the connection of t related to one another through an overstelling program, the Sondinessorn Pennsylvania Historic Preservation Commission. Within the Chestpooks Bay, the prognand Sar Spangfod Benner (Wer of 1812) National Historic Trail would thread as way through all of the subject area and affected regions in a most desirable overlapping of programs.

interpretive themse that incorporate preservation, conservation, and sewerchistic partnering with local governments, evic organizations, nonprofits and heritage tourism beautesses. All have enablished strong relationships with their local destination merketing organizations. The surional heritage was consept would enhance heritage tourism by bringing people to the sizes that the Gateways Network is helping to interpret. A Chesquade Bay Nethonal Heritage Area, would thus conditine the strongest possible fold-surfaced and Maryland state berings areas, fill gaps, eliminate redendancies, and provide the strongest possible federal/state/focal permetrible to conserve and colchrate the Chesquade Bay. This Chemposite Buy National Heritage Area coocqut provides a timely opportunity for a powerful federal-state pertuenting is to unquestroned area of national leganificance. Maryland bertages ereas bondering the Bay have completed or are working on Maryland Heritage Areas Authority-mandand Management Plans—the public process of identifying Bay-evaluand

He thank you for this opportunity to provide these comments. If you have any further quantizan, pleuse fleel fine to compar any one of us to discuss the ideas we advance here.

William J. Pennek

Caroline, Kest, Queen Anne's & Tabot County Heringe Arm Chatantows, MD 21620 410-416-7472 101 South Water Street The Custons House **Executive Director** 

A. Estabeth Wetson

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neterations in the con-

Mark May

Exacutive Director Assepcits, London Town & South County Heritage Area Donn July Dadler I Calvert Street Leundol Center

Bultimore City Heritage Area Room 346, Chy Hall 100 N. Halliday Street Buttierore, NO 21202

**Executive Director** 

Amendia, MD 21401 10-22-1805

10-36-195



# MARYLAND SALTWATER SPORTITISHERMEN'S ASSOCIATION, INC.

6239 8 Fort Straitmood Road, Budlman, MD 21228 pt 10; 256-6535, FAX pt 10; 256-1562

Mr. Jonathan Doherty National Park Service's

September 1, 2003

Chestpeake Bay Program Office 410 Seven Avenue, Suite 109 Americalis, MD. 21403

Dear Mr. Dobarty:

As President of the Maryland Saltwater Sportsfahramen's Association (MSSA), I want to take this opportunity to thank you for allowing Mr. Robert Campbell to come to our Southen Maryland Camper meeting on August 21st, and conduct a full presentation of your Special Resource Study including the opportunities and alternatives. But presentation of your Special Resource Study including the opportunities and alternatives. But presentation of a Chestopatio Bay Esmay National Park. Even though several of the objectives are quite attractive, they also are either similar or identical to custing goals of other San or private organizations of proposed effort that has us connected about the storess of the NPS's benefities.

Many of the alternatives described by Mr. Campbell enthith a potential conflict with various organizations operating within the Chestpeake Bay proper. For example, to consider closing clamming because it adversely impacts on the growth of Sub-Aquatic Vegetation (SAVs), does not take that account the lass of incounts to commercial wetermen. When saked if the Maryland Waderman's Association had been connected about this alternative, the right was negative. In addition, when saked if the Maryland Department of Notarial Resources had been contacted about their work and future plans concerning activities to improve water quality and hadrain in the bay, again the right was in the negative. We are also concerned that no real cost marylat has been done for any in the thegative, where the activities in your plan. We feel that many of these abstractives will cost unwanted of hundreds of millions of dollers at a time when finals are senter.

The only saving condition that the NPS absentatives offic is the hope there some of these action to an economistical jointly between the primary states involved; namely, Maryland and Virginia. However, it seems to us that trying to implement may of the absentatives destribed would stay on the toes of various State organizations of the three new notating for years to get certain objectives exhieved among the different groups that operate this the Chesspeake Bay.

In conclusion, it is for this apparent depletation of effort, as well as maintown costs to emissionent the proposed alternatives, that MSSA is not in favor of endoming NPS's plants MESSION OF THE MESSA. The MESSA is Marking to Provide a Limited Value to Prosent and Prosect the Algebra. Traditions, and the France of Plannescond Febring.

for its vision of the Chesquealz Bay Watarshed. We believe that more study is needed with input from verious State and local organizations that are affected before any further plans are formulated. We recognize that a ket of work has gone into these plans and abstractives, but the reconstitued fixhing community is very contious about giving any overnmental organization the prover to close off fishing in any part of the Chesqueak Bay.

Thank you for giving us the opportunity to respond

Sincerely,

Salma Variety MSS

oe: Rich Novotay, Executive Director, MSSA

Organizational Comment Submitted via Website Comment Form

Comment from: Steve Whiteway - Chairman Middle Peninsula Chesapeake Bay Public Access Authority (MPCBPAA

#### General Comments:

The Middle Peninsula Chesapcake Bay Public Access Authority (MPCBPAA) Writes to support creating a unit of the National Park System focusing on the Chesapcake. The MPCBPAA agrees that the Chesapcake Bay is a spectacular treasure and fully supports any effort that enhances public access to the Bay and its tributaries

MPCBPAA has reviewed the five alternative concepts for how the Chesapeake Bay might be represented within the National Park System. MPCBPAA supports at a minimum alternative B "An Enhanced Chesapeake Bay Gateways Network." This alternative would continue to expand a successful watershed-wide system of special places for experiencing the Chesapeake. MPCBPAA further recognizes the diverse cultural and ecological opportunities within the Chesapeake Bay and its tributaries. Therefore, a blending of alternatives should be considered in appropriate Persons.

If you have any questions concarning the comments of MPCBPAA, please feel free to contact Lewie Lawrence, MPCBPAA staff, or me at 804-758-2311.

#### Steve Whiteway

Chairman-Middle Peninsula Chesapeake Bay Pubic Access Authority

### Comments on Alternative A:

### Comments on Alternative B:

The Middle Peninsula Chesapeake Bay Public Access Authority (MPCBPAA)
Writes to support creating a unit of the National Park System focusing
on the Chesapeake. The MPCBPAA agrees that the Chesapeake Bay is a
spectacular treasure and fully supports any effort that enhances public
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regions.

If you have any questions concerning the comments of MPCBPAA, please feel free to contact Lewie Lawrence, MPCBPAA staff, or me at 804-758-2311.

Steve Whiteway

Chairman-Middle Peninsula Chesapeake Bay Pubic Access Authority

Comments on Alternative C:

Comments on Alternative D:

Comments on Alternative E:

Organizational Comment Submitted via Website Comment Form

Comment from: Billy Mills (MPRA)

General Comments:

TACES:

stendent to selection of a Bay tributary as envisioned in Alternative E, MPRA submits With respect to future implementation considerations and subsequent discussions that the York River, together with its upriver tidal tributaries, the Martaponi and Paramakey Rivers, should be given consideration as a candidate tributary for the following general reasons:

- A. The York presents an appropriate mid-tizz scale and sizz tributory system

  B. The York features multiple Getevasys, a major NPS unit a imajor Marine
  Research Institution, a Virginia State Park, and from CBVERRS research reserve sites C. The York hosts a significant fideral DOD land & water-based presence
  D. The York presents multiple "Bay stories" harings and context
  E. The York's special resources increases.
- F. The York bosets a long history of citizen engagement and activism H. The York is the losss impacted Virginis Bay tributary watersheds, land-use is of TMDL waterbodies and a high number of amphibian, bird, and vascular plant Herings 19% urben and open water, 18% coop production, and 72% forest cover. A low number Resources speak to exceptional water quality for the free-flowing York.

END of PLACES comment.

MFRA general survey comments, in full, are as follows (below):

Comments to NPS (RB: the Chempenke Bay Special Resource Study) from MPRA, The Mattapons and Paramkery Rivers Association, fac., developers and managens of the fort River Water Trail, a Cateways Network connector in the Commonwealth of

MPRA's principal comments are as follows:

Option A, the "No Action" alternative should be eliminated from consideration by NPS.

- MPRA strongly supports Alvernative B as a fiture outcome that is neching less than
  essential to the future of the Gateways Network, particularly given the significant federal. state, regional, and local investments to date.
- 3. Of the remaining alternative options C.D., and E., MPRA strongly supports Alternative E, specifically in conjunction with Alternative B as a preferred outcome.
- Abensative B, together with Alternative E, represents the most logical pathway whereby: 4. MPRA advocates that a combined attenuatives approach, specifically purning
- A.) both the potential and long-term viability of the existing Gateways Network can be more fully realized, and
- B.) the Chesapeaks Bay Program's concept and goal of comprehensive watershed management, as suggested and embraced by the community watershed organizations focus and public engagement commitments and strategies for Bay tributaries, can be significantly bottessed and strengthound by NPS.
- With respect to fiture implementation considerations and subsequent discussions attendent to selection of a Bay tributary as envisioned in Alternative E, MPRA submits that the York River, together with its upriver tidal industries, the Mathapout and Pennukey Rivers, about he given consideration as a cardidate tributary for the following general reasons:
- A. The York presents an appropriate mid-size scale and size tributary system

  B. The York features multiple Geteways, a major NNS unit, a major Marine
  Research institution, a Virginia State Park, and four CBNERRS research reserve sites
  C. The York bests a significant federal DOD land & water-based presence
  D. The York presents multiple "Bay stories" heritage and contact
  E. The York to sests a long history of citizen cangegement and activities
  F. The York to sests a long history of citizen cangegement and activities
  H. The York to sests a long history of citizen cangegement and activities
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  10% urban and open water, 18% cong production, and 72% funct cover. A low number
- of TMDL weterbodies and a high mumber of amphibian, bird, and vescular plant Heritage Resources speak to exceptional water quality for the free-flowing York.

Comments on Alternative A:

1. Option A, the "No Action" alternative should be eliminated from consideration by

Comments on Alternative B:

essential to the future of the Ostoways Network, personiarly given the significant federal, MPRA strongly supports Alternative B as a future outcome that is nothing less than state, regional, and local investments to date.

Comments as Alternative C: MPRA views this alternative as potentially holding insufficient appeal of readily-facilitated access (and ultimately meaningful and compelling on water interpretation) for too few.

Camments on Abstrastive D: MPRA views this alternative as potentially insufficient for marketing to and engaging local contemprises who might be wary of a federal presence that could introduce retoon use restrictions of fairfulfora.

Comments so Alternative E. MPRA strongly in conjunction with Alternative B as a preferred outcome.

## National Geographic Society

1145.17th Street N.W., Washington, D.C. 20036-4618

GILBERT M. GROSVENOR Chairman of the Board

Mr. Jonathan Dobsety
Cheapagate Bay Spoil Resources Study Director
Mational Part Service
Cheapeake Bay Program Office
410 Serven Avenue, Saine 109
Antarpolis, MD 21403

Dear Mr. Doberty,

Thank you for the opportunity to connects on the dual! Chesapeaks Bay Special Resource Study that explores different options for a Chesapeaks Bay National Plack. As a result of its natural, that explores different options for a Chesapeaks Bay hainted have importance, I believe that the Chesapeaks Bay is a resource of even greater entirons significance than the well-known National Parts of the American west.

To support each of the Chestpeaks Bay Special Resource Study alteratives and to tie biggiber the Bay's Geterrety Communities and its rich variety of Instoric size, wildlife reflects, partin, precursors and weldeng, we would like august continuous of Chestpeaks Bay National Water Trail, reneglaty retarning Captain John Smith's explorations of almost 400 years ago. The trail, which could run the length of the Bay and finite cateding and finite water that is on that the district general constants are seen the previous trained interpretive trail along a strotch of creek, river or shortline with public uress that include bistorical and coological information for the peddier and smill beater sailor.

Additionally by involving communities, nonprofits, public agencies, businesses and private isoslowaers, establishing the Water Trail will demonstrate a new model for the public-private partnerships that will form the bests for know we test for our additional treasures in the 2.1 f. Commy. We be there that not only will the National Water Trail and studies layer of protection to the Bay, but it will also factor embersed understanding of the national eignificance of the Bay.

A Chesapeatre Bay National Water Trail that follows Captain John Smith I expeditions would be in a crucial element of any successful rational part for the Bay region. Consequently, we feel that the Chesapeatre Bay National Water Trail should be added to the final Chesapeatre Bay Special Researce Shaly.

## Before the INTERIOR NATIONAL PARK SERVICE Washington, D.C.

in the Matter of

Draft Chesapeake Bay Special Resource Study and Environmental Impact Statement

10: National Park Service Chesepeake Bay Program Office

# COMMENTS OF THE MARRIET TUBMAN MUSEUM AND EDUCATIONAL CENTER, INC. THE AD HOC COMMITTEE FOR THE MARRIET THE MARRIET THE MARRIET THE MATIONAL PARK, AND THE NONAL ASSOCIATION FOR THE ADVANCEMENT OF COLORED PEOPLE

The Harrier Tubrnan Museum and Educational Center, the, the Ad Hoc Convrittee for the Harrier Tubrnan National Park, and the National Association for the Advancement of Colored People respectfully submit these Convrents in response to the <u>United of Draft</u>. Chesapasaka Bay Special Resource Study/EIS Availability, 68 Fed. Rep. 37961 (Anne 25, 2003).

#### Summary

The interior Department has spent \$1,500,000 and enpaged 20 expants to write a 155-page single spaced report that found that Africans in the United States were tookonists. Yet the Department's report failed to ascertain that the Underground Railroad or the Civil Rights Movement ever happened. By consulting a riddle school civics textbook, the Department would have leamed that the Underground Railroad and the Civil Rights Movement were among the most significant events in the region's history.

These historical ecrobalics would be amusing if there were not so much at stake. For nearly two years, we have triad to persuade the Department to create a Harriat Tubman National Park on Maryland's Eastern Shore. Yet the Department's enabysis of potential Park Senice units in the Chesapeake Bay region contains no explanation for its rejection of the Harrist Tubman National Park proposal. The Department's crabbed rewriting of history only underscores how badly Americans need the Harrist Tubman National Park to proserve and display history as it neely happened.

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The Department should withdraw, revise and republish its call for public comment on the possible establishment of Park Service units on the Chesapeake Bay. In its next effort, if should provide a complete and honest recounting of history, and it should seek public comment on the possible creation of the Harrier Tubman National Park.

## Interests Of The Commenting Parties

The Commentars are nonprofit organizations, each headquestered in Maryland.

The Hantet Tubman Museum and Educational Center, the ("Tubman Museum") is based in Cerubridge, Maryland. It operates a museum in downtown Cerubridge dedicated to advancing public knowledge and appreciation of the history of the struggles for freedom and equality of Artican Americans in the Chesapeate Bay region. The Museum houses permanent exhibits, and conducts educational seminars, but is and dramatic recreations of Hantel Tubman. The Museum is else the cite for a summer youth trianing process.

The Ad Hot Committee for the Harlet Tubman National Platk (Platk Committee) is a non-sell governing project of the Tubman Museum. The Platk Committee was formed in November, 2001 to bring about the creation of a national park named etter Harlet Tubman and offering a permanent toous on the legacy of the Underground Relicaed. Toward this end, the Platk Committee prepared its proposal antified The Harriet Tubman National Plark. A Proposal to the National Plark Service Harriet Tubman Special Resource Study Team. July 18, 2002 (lodged with the Chesapeake Bay Study Team at its public workshops in Selisbury, MID September 17, 2002 and in Annapodis, MID September 26, 2002) ("Tubman Platk Proposal").

The National Association for the Advancement of Colored People ("NAACP"), headquartered in Battmore, is the nation's largest civil rights organization, with expressive 400,000 members, 2,200 branches, youth councits and college chapters, and a stalf of 150. The Maryland State Contenence of Branches of the NAACP includes nine branches on the Maryland Eastern Shore, one in each county. On July 9, 2002, upon

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the motion of the Dorchester County, Maryland Branch of the NAACP, the National NAACP, meeting in full convention, voted unanimously to endorse the creation of the Herriet Tuhrnan National Park as proposed by the Park Committee.

# The Park Service Should Create The Harriet Tubman National Park

## A. The Harriet Tubman National Park Concept

The Harnet Tubman National Park would be a full service family destination offering educational, research, and recreational activities – including an amphitheater, vistors todge, conference center, video facility and college dessinoons. The Park would be designed to the highest standards of historic preservation, educational value, environmental and wildite protection, and economic and land use planning.

The principal site of the Park would be in south Dorchester County, running from Bucktown on the test to the Bay on the west, and taiding in a sweth of land just north of Blackwater National Wildlife Rafuge. Visitors centers also could be focated in Fernandria Beach, FL, Beaufon, SC, Carnbridge, MD, Caroline County, MD Camden, DE, Philadalphia, PA and Auburn, NY – in a 'chain of islands on the land' recalling the historical reality of the life and times of Harriel Tubrian and the Underground Railroad Isself.

The Underground Railroad would be dramatized through such means as live, interactive treatities presentations. Educational, conservation and preservation activities would focus on how the Bay region's topography and ecology made the Chesapeake Bay region's Underground Railroad possible.

#### Why The Park Service Should Create The Harriet Tubman National Park

Among the greatest seldom-told stories of American history is how enslaved people creatively used the weltands and waterways for protection, shelter and sustenance as they sought their freedom. A full understanding of this extraordinary synthesis of human purpose and divine creation is possible by experiencing the natural environment which gave birth to freedom.

The southern Dorchester County landscape has not changed dramatically in 160 years, enabling visitors to appractate the history that played out on the sacred ground where Hamet Tubman was born, freed, and orchestrated some of her dandessina work.

The Harrier Tubriera National Park would be America's first national park and full service vacation destination of special inverset to people of color throughout the world. As one of the greatest of Americans, Harrier Tubrian deserves this high level of public recognition.

A netional park would also do rruch to restore stability to the tractile Eastern Shore according. By helping the Shore end its overrellance ori agriculture and manufacturing, a national park would ensure security and stability through professional management and preservation of the Shore's vast and underappreciated ecological and historical resources.

## How The Harriet Tubman National Park Should Be incorporated Into Our System of National Parks

At least sevence on Tubman-related historic elless, including the Tubman britiplaces and châdhood home site, are located in Donzhester and Caroline ocurriess within twenty miles or less of the Bay. Creating a park whose territory includes these sites, as well as land along the Bay, and possibly other Underground Railnoad-related sites along or near the Choptank River in Caroline Courty, would be an extraordinarity effective way of merging historical and environmental themes within the same unit of the Park Sewbo.

A park configured as a 'chesin of islands on the land' from Florida to New York would be within a dey's drive for about 35% of the American people. No Park Service policy requires all sites in a unit of the Park Service to be configurate. Consequently, an aggregation of sites associated with Harrist Tubman or the Underground Relinead would symergistically deliver the mission of the Park to a significant proportion of the American people.

Another Park Service study usam, the Hamet Tubman Special Resource Study Team, is examining the possible creation of units of the Park Service to be dedicated to the

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presarvation of specific sites related to the life of Harrier Tubman. J. As is well known, Park Service resources are limited, indeed, the Park Service is having difficulty even maintaining the units it presently operates. How much more efficient, then, it would be to deploy scarce Park Service resources by merging the efforts of the two study tearns and creating a single unit of the Park Service that is focused on Harrier Tubman and the Chrespeake Bay region Underground Relined, and on the Chresapeake Bay itself. Tubman and the Chresapeake Bay region Underground Relined, and on the Chresapeake Bay itself the Harrier Tubman National Park would fit that bill perfectly, since the sites togically includable in the mine location of the Harrier Tubman National Park would set the most declarate and lowlands were ideally suited to conceatiment of ensieved people during the most dangerous tritial legs of their journeys, and the Bay and its tributeries were among the legating pathways north to the Promised Land. The Harrier Tubman National Park would use the example of the Underground Relinea to explain the global Frienries of environment and history.

The Draft Study is Fatally Flawed. It Should Be Withdrawn And A New Round Of Comments Should Be Initiated.

In June, 2003, the Park Service released its <u>Draft Cheasacake Bay Spacial</u>

Besource Study and Endicomental tropact Statement (Cheat Study.) for public comment.

The <u>Draft Study</u> seeks comment on five attematives that could form a model for a unit of the Park Service on or near the Cheasaceake Bay.

None of the five ethernetives addresses what is by far the most important unner need for a new Park Service site: a historical park that would toous on perhaps the most influential events shaping the history of the negion. Those events are the enslavement of hundreds of thousands of people between 1619 and 1883, the remarkable efforts of people of goodwill who formed the Underground Ralimad in the decades of the 1830s.

See Draft Study, p. 30.

through the 1860s and theraby broke the economic back of the enslavement-based economy, and the freedom struggle of the African American people that continues this day.

Approximately one-third of those living in the Chesapeake Bay region today are people of cotor. Further, 100% of the population of the region has been profoundly touched by the civil and human fights fistory of the region. The intrinsic weath of the region—manifested in its cleared and tilled lands, and much of the inherited weath of a majority of its most influential families — was initially derived from the chuel exploitation of ten generations of free labor of people of African descent. Another source of the region's wealth is the moral force represented in the Underground Rasilosed, in which African Americans and Whites each risked their lives to deliver enstaved people through Detaware to Pentrey/waria, New Jersey, New York and Ontario. The audachousness, determination and nobility of this extraordinary enterprise is known and reversed throughout the world. In most of the world's countries, citizens may not have heard of the Grand Tetrore, or Mt. McKinley, or even Yellowstone, but every achocidalid in Europe, Africa, South America, Australia and Asia knows what the American Underground Reinced was. Gardhi was irrepired by the effort, as was Neison Mandela, as was Lech Walessa. It is the Chesapeake Bay Region's greatest gift to the nation and to the world.

Remarkably, however, this history was absent from the <u>Dratt Studt</u>. In its 155 single-spaced pages, this document contains essentially nothing about two of the greatest historical events that took place on the region's soil and its waterways – the Underground Ratinoad and the modern Civil Rights Movement. Specifically:

The Draft Study's discussion of The Bay as a Historical and Cutumal Rescures Spaeks of the Petry European sattements' write not mentioping slavery, the Underground Raliforad or the Civil Rights Movement.?

14 at 19.

- Peoples of the Bay states that Thistail, instigute, affinite, printical and economic divisions have been countestainteen by miled efforts, common concerns and shaed values. \*\*2 This characterization, which could feller to every region of the work caught sharadita, is meaningless without an extrowledgment that he leading furtieforts were stateway and oppression and the leading furtief efforts, were the Underground Railroad and the Child Railroad and the Railroad and the Child Railroad and the Railroad and the Child Railroad and the Child Railroad and the Child Railroad and the Rai .
- The "Chesapeake Bay Thernes" section also includes a subsection on freshear or of the Bay Which English states. "First, includesous peoples, freshear includes and soon state, Alricans setablished footbode in the Bay are a opening a gatherey for the Largeoning pattered for the Bay and or establish Toothode's in the Europeans of or on establish Toothode's as the Europeans ofc.
- In its historical overview of the Bayl's "Cyltuna Environment" the Draft Study helpdate a clebosastor of the partod A.D. 1500-1775, which it retered to as the period of Cyltung and Afficial according and contained this speriment, the oppulation of openies and Afficial according and Afficial and Afficial, around the Mayland Cyltung and Afficial and
- In the same "Cultural Environment" overview, the section "Independence and Expansion (A.O. 1776-1822) skorowedges that Illine and enstained Altican Americans made up a large percentage of the bay's progulation, in the cities and on farms. Bullations was herner in the second-larged froug of free blacks in the U.S., and many participated in the bay's economy as overemen, sallors and tradespectories M.D. p. 7. However, into section order mention of the ridges of Bellinvois. Avrapodis, Certainide and other cities in the Chesepacker ragion as among the nation's leading early other connences in human being outing a time period that incritically also includes the Arrange Land.
- **站** af 19.
- K. p. 26.
- 회
- Ld., pp. 84-86, 86.
  - Id., p. 87.

- labor marker in the north and a state above excorntry lattice south. The risk was devastated by the violence of the west and many of the undestuded by the violence of the west and many of the undestuded landscapes were changed forward. There was not a word about the Undestudes were changed not about his rich and other unconnotable history by Arican America's after the CAMI War a history wifeth included burn generators or segregation, princips and min Chow, as well as the poinseming efforts of Chaines Harritton Houston, Lille Jabbson, Thurgood Marshall and many others in setting the stage for the modern Chris Fighrs Monement.
- Later in this "Outlural Environment" overview the period "Post 1950 and Bay Restoration" is described without a slingle word about the modern CMI Fights Movement—unquestionably the region's signature social and cultural event
  - The Draft Study's iteration of "Historical Structures/Sites" does not mention a single African American-related site 19
- The <u>Draff Study</u>'s description of "Ehrnographic Resources" does not mention a striple African American resource, including any of the uses of lands and sand services which the Inderground Relined possible. Maryland's dozens of Black churches, schoods and museums are nowhere acknowledged.10

Having so gravely misstated and decontextualized the region's history in this way, if public comment. Although Draft Study mentions the Tubman Park Proposal, 12' the Draft. is understandable that the Draft Study old not find the Tubman Park Proposal worthy of Study omes it from the list of alternative peradigms upon which public comment was

- 位. p. 87.
- 1d., pp. 87-88.

  - id. p. 90.

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伍, p. 91.

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sought. Further, the <u>Draft Stuck</u> failed to explain why the Tubman Park Proposal was rejected 1.3° By failing to explain these decisions, the <u>Draft Stuck</u> violated the Administrative Procedure Act.19'

Furthermore, and also without explanation, the <u>Draft Study</u> paid scant attention to any potential historical preservation plan that could form the basis for a new unit of the Park Service or a material part of such a unit.18 One alternative – Atternative A – which

The <u>Draft Study</u> states that "flotlowing public workshops in September 2002 and burbission of written comments, the study lean scribe comments and presented them to an interdisciplinary group representing the Chreatpeake Bay Program partnership. The anniversiciplinary group representing the Chreatpeake Bay Program partnership. The attention workstession to build specific conceptual and attention of public comments and initial concepts. After similar ideas were grouped together, and sufficient and an action alternative and four conceptuals. After similar ideas were grouped to AD. A general description of the mechanics of the review process is not a substitute for the requirement that an agency provide reasons for its major decisions. See in . If IIII.

14 While an apency is permitted to reject proposed alternatives, it must give a reason for rejecting them. Set 8 LiS.C, §5569 (ar apency must give 'prompt notice... of the dental in whole or in part of a written. request of an interested prescri made in cornection with any apency proceedings. Except in affirming a prior denial or when the denial is self-encilled in which the notice shall be accommonated by a their statement of the grounds for denial." S LiS.C, §55340; <u>sate also</u> 5 LiS.C, §704(2)(D) (court shell set itsube approximation of some surface for the consult of the set in a approximation of the freely court of the high statement matter presedined, and approximate the definition of the relevant matter. S LiS.C, §553(c) (rather consideration of the statement of their basis and purpose.)

15" None of the five alternative models upon which public comment was sought has a maneral emphasis on historic preservation. Certainty the Park Service has entyped great success in developing and managing historical sites, and if should be unthinkable that a history-based site would not be included among the attendance upon which public comment is sought. Yet the IDIAL Study does not explain why none of five preferred attentiatives focuses on historic preservation.

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contemplates no change to the present configuration of parks, is unacceptable on its face, se Atlantatives D and E focus on maintaining, in relatively unchanging form, the present-day physical and outlund state of certain Bay area resources, but these attentatives do not materially address the re-creation, preservation and presentation of the history of the region LV. Attentative B contemplates some expension of adsting programs, but neither admondedges their world inadequacy in representing the African American expensions. Its

Life. Alternative A is unacceptable on its face. The auturbanization and exurbanization of the Maryland Eastern Florar will large a way short whodow of time – perfeash two of times years – before about a florar will large as way short whodow of time.

years – before about a florar become prohibitive and development and pollution rentier the region unsafeste to the introduction of any new unit of the Park Service. We associate curseves with the views of most offer commenter who control in this assessment, and we specifiedly concern with the Chall Sillard's conservation that I will provide effective eccognition, approaching the major of the services and the lites/less of the time. If all a 14.

12. Atternative D ("Chesapeake Bey National Reserve") and Atternative E ("Chesaretaske Bay Watershed National Ecological & Churus Presserve") would essertisely maintain, in approximately their present state, various natural and cultural resources. That is not the earner as historic presentation, which focuses on recognizing and displaying natural and cultural treasures whose sphysical manifestations may not have survived in a form suitable for public display without the intervention of historicans and autheredoptis.

Life Among the 120+ sites in the Chesapeate Bay Gataways Network (Network") and curus fittes claimed by the Network to be gentrate to African American history and culture. Two of these are null-standing to Network to be gentrated to Micran American, and call standing the Patrian on the Patrian of these are an Latelan Standing Micran Americans, although the Patrian Cher. These sites include some displays concerning Micran Americans, although these displays are largely presented from the context and perspective of the anti-deplum plantation owners, rather from the context and perspective of the artic-defun plantation owners, rather from the context and perspective of the edited before) the Interserves. The Network also includes one unit, the Underground Retirotal Scenic Byway ("Byway) whose map-beased defining sur the Decribeate County Touland office. The Byway is essentially a map-beased defining to the preserve procuration and the surface of the secondarily a comprehensive effort to represent preserve, procurate, display or honor the history of one-tiffer of the preserve from the preserve from the preserve from the preserve from the history of one-tiffer of the preserve from the preserve fro

nor proposes any steps to remedy this graning omission.19

Consequently, any conclusions and recommendations derived from the <u>Draft Study</u> Department should withdraw, revise and republish the Draft Study, and should thereupon generally and African American history specifically. In this further round of public comment, the Department should expressly call for comment on the Tubman Park Proposal 201 initiate a further round of public comment devoted to issues of historical preservation in its present form will be incomplete, enoneous and indefensible. Accordingly, the

Respectfully submitted,

David Horig 241 Hickory Ridge Dr. Queenstown, MD 21858 (410) 827-5892 fax: (410) 827-5892 drorig@croselink-nel Loensed in D.C. Onty

Coursel for the Harries Tubman Massum and Educational Centers, Inc., Ad Hoc Committee for the Herines Tubman National Park, and the National Association for the Advancement of Colored People for the Advancement of Colored

August 29, 2003

Altermetive B (\*An Enhanced Chasspeake Bay Gateways Network\*) would build be current Network which includes over 15 Optark, enfolted, musaums and the Network in Alternative Bus selected, whe world orbitate of historia network in the Team to the Network should be the top priority for expansion of the Network. The <u>Data Busky</u> sake should be the an understanding the advantage of the Network is "("pacial sake schooling of the Network is "("pacial sake schooling of the Network is "("pacial sake schooling of the Network is "("pacial 28. Euribre, Alemative B consemplates that the Network would "be enhanced to fill an efforts each of the state of the Network is "("pacial and entire the Network would "be enhanced to fill an expressive dauthered of "trada and ethnic heritage" is not among the "several engage; that would be filled by Alternative B. Specificative, the pace is several eight float on mention may expansive on the Chesansaste Bay Gaterway.

At your of years of mention may expansive on the Chesansaste Bay Gaterway.



## Maryland & District of Columbia Chapter

\$410 Gretistiner Land, Solite 100, Bithesda, Maryland 20014 301 897-8510 fee: 301 897-6510 fee: 301 891-0658

September 16, 2003

Chesapeake Bay Program Office 410 Severn Ave., Suite 109 Assesspolia, Maryland 21403

Deer Mr. Doberty:

The Nature Oceanway approclates the opportunity to comment on the Draf Chesspeaks Bay Spocial Resource States and Burlemmental largest Statement. The Conservancy was involved in two early stoping stealons put together by your office we have been closely following this issue ever sures.

Conservancy is corregional planning process and our increasing focus on hardwaper-concensuration. A number of views ago, the Conservance emberded on a planning process to design a profession on a planning process. The design a profession of a planning process that would perfect the full mange of biodiversity within each excengions in the U.S. (scoregions were brandly based on biodiversity within each excending in the U.S. (scoregions were brandly based on biodiversity within the Designation Bay.) The corregion for transmisses the Chesignale Bay is easiled the Chesignals Bay Live to the Section and includes the Bay warmed of Maryland, Virginia, and Delawren up to the Reli Lias. Within the corregion, Maryl Virginia, and Delawren two these file Lias. Within the corregion, Maryl Maryl he the form of one advittee into the fine (see establand map # 5). Our comments on the Study should be prefeted by a brief overview of the

in Maryland, the key terrential inninance cale sizes identified by the Chesap Bay Lowisside Roccopional Plan are Bay infoataries and located Nasylamoy Creek in Charles Comp., the Namidook River (both in MD and 1807), and Nassurango Creek (in largest subtrary of the Potomede River located in Wicension and Wortherse Countie. Virginis is flocusing its land and water conservation strategies on several Bay tributed including the Rappidamoods, Mathaport and Pomunicay, and Deagan Rus, as well an several annil Bay tributeries on the lower Eastern Show of Virginis in Accordate and Nasthangton Counties.

Our goal at these sizes is to protect end, in scace cases, restore significant portions of these exests as functional coological systems to concerns and enhanced their biological significance. This pass is similar to those established for Alexandre & Chesquade Boy Vezerbach Autumi Boological and Cultural Preserve to "enablish a sustocal coological."

and cultural preserve focused on one exemplery Bay tributary" to "concarve and restore the influence consistent" to "society key netural resources and river shortelizer." The concarvancy believes that Alternative E is consistent with, and would enhance, the goals of the Comparturary and its partiers at these tributery sites and therefore we endone it as one of the preferred alternatives.

The Chesapeake Bay Lovdende Booregional Plan abo identified more than a finecunstine, coastal and marine "conservation targes" – species like blue crebs, recifich, and oystern; species signegations like intervehiets and wareholder; and habiter to be build be abbaseged equative vegetation and data vestinds – and mapped their distributions around the Bay. With the bay of marranto Bay researches and expent in Maryland, Delawers and Virginia, we identified and mapped "Significant Conservation Areas" (SCA s) in the idal warran of the Bay itself. The SCA's represent what we before a te the best areas for conserving multiple, one-occurring conservation suggest, they greatedly have good or very good water quality, and they are startified along the major environmental gradient of the Bay to capture the full array of maire biodiversity found in the ensury. The SCA's in the Bay posters are the Startishelman Fare. the Chopenia River and in mouth, the shallow Bay bottom from Tryke's island to Tanger lating, the Mobjast Bay area and York River mouths, and the Lower Bay (see enclosed map # 4).

The Conservancy's plans for the Significant Conservation Areas have not yet been fully developed, but our goals for these areas appear to fit well with Albrandive C. Conservation Boy Energy Leaf and the NPS startly document to Conservation Boy and the NPS startly document to the core seports of the Conservation's destination and seek seek representative of the core seports of the Chemposit's estantine environment's "propost equation resources" is very similar to the Conservancy's vision for the SCA's. Because of the resources" is very similar to the Conservancy's vision for the SCA's. Because of the parts.

In fact, we agree with the statement on page 11 of the study that "doing mass than one thing — the form earther the R.C. A. & B. De our termalally exclusive" is very tree. The thintery stategy (Albrinative B.C.) & B. De our termalally exclusive, is very trees a present of the stategy of the stategy (Albrinative C) to provide for a marse complete pattern of the Bay, both coolingscally and outbursly. In addition, there albranding approach, or in combination, would not practical the interpretation of the marificons and rared bethage of the Bay as a standard in Albrandium.

#### To summarise our commonts:

 Our two preferred alternatives are Alternative C. an emary park, and Alternative E. a tributary park. These alternatives fit to well with the vision and planned conservation strategies of The Nature Conservancy in the Chesaposite Bay Lowlands Econogica.

- TINC believes their a combination of Alternative C and B may yield a more complete interpretation of the Bay. There are arrent sites on the Bay where Alternative C and E could be combined, for example, the Natricoke River/Impire Sound area.
  - TNC does not feel that either of those alternatives (C end/or E) would prevent elements of Alternative D, a maritime and rend beringse part, from being gart of the interpretative and educational expects of erry part that may result.
- We would hope that the Gattweeys system would continue as a key element of any of the chosen alternatives.

I have enclosed a map of the Conservancy's landscape scale sites and the Significant Conservation Areas as identified in the Chempeals Bay Lordscats Borregional Plan. If you have any questions about these comments, priess don't besiness to consear any in a consear.

Sincerely,

A.Z. M. Menney,

Nat Williams
Vice-Penident and State Dénotes



IN REPLY REFER TO: NCPC File No. 1200

Consiste Restri

Jenn V. Coupitt, III, Chalman Richard L. Frankan Jone L. Gaber, III

Mr. Jourthon L. Doherty

NPS Chesapeaks Bay Program Office 410 Severn Avenue, Suite 109 Amapodis, MD 21463

Marie Agenties Archiges Dhos Dr. Nghish Sweet

Dog Mr. Doberty:

Es Officia lagretara

Secretary of Orders Shipman A Street Constitution

yill sessis you in perpering the resulting Record of Decision in the context of the overal engrementic planning for heightlighting the Agrificance of the Bay resource. These El somerants are limited to the Commission's rate as the operal planning agency for the forters government is the National Capital Region and express our general views on planning an anticummental sistem. The occurators provided is the black of so to constitute say from a mirrummental sistem. The occurators of the National Capital Flatming (40 U.S.C.) \$172(b,(1)), should may appead of the smoty eventually be identified to locate within its benood (EIS) for the Draft Ch Thank you for the opposi-

Administration Committee Administration Committee Commit

Secretary of the Imprier The Monorable Carlo A. Navian

the section of the proposal factor of the property of the proposal grant contractive by the proposal grant contractive by the complexities of the competing interests that are associated with the trooper, the concept into the proposal is no coccept, that would knowle the catalizing periorsh – contract authorized until 2008 – and would be exhaused to become permanent. The program won exchangely be habeled a unit of the National Part System.

Contraction on Generalized Referent 9.5. House of Representatives: The Memorabie Rev Cerb

Cornellor on Governmental Affairs United States South The Haupstale Locals III. Callins

In alternative B, the National Park Service would coordinate the partnership Gateways Network as a permanent program for the Chesapeake Bay to achieve the following goals:

Mr. Josephon Doherty Page Two

Help conserve Bry landscapes. Certain Bay landscapes would be eligible for Gateways Network technical and financial help for conservation initiatives.

Other advantages to this alternative are that this plan takes the Gastreeys Network to as expended role. By making a permanent commitment to the Checapealte Bay Gastweys Network, the NPS would enture the brag-kern widelity and enfance the Checapealte's station among the country's national breasers. Through the development of the two Checapealte Bay interpretive and othersish contexts in the northern and southern parts of the Bay, visitors interpretive and othersish context in the northern and southern parts of the Bay, visitors would be a portal through which to view the Bay s' log picture's stories and theone, and affairing point from which to captors the rooves of other Gastways. As noted by the orelations of the document, this alternative is one of the three options officing the greatest

information of constraints and the propers to these an automation special propers in a felligible between the behavior between the world continue in monotonic note as particularly system of special Bay pieces, instanced as verying of public and private includionic. Overall special Bay pieces, managed by a verying of public and private includionics. Overall special subspiction of the fishers would be remised not in much the items fractions as it is today by the PPS, in conpertition with a marki-organizational board or coordinating body, addition, the Network will broaden in fixus to help interpret and conserve import of decapes lined to established programs of the decape lined for the established programs of the decal plantaletism which have a direct interest in the Boy's therm. Moreover, the make of establishing this new program from an immercedy successful one planta.

Please ensure that the final determination of yo final copy of the final EIS, for use by the Co questions about our comments, please contact E

The Commission staff is encounged by the wide range of issues reviewed by the Nations Park Service's (NPS) proparation of the draft EIS. The Commission staff has concluded tha varisdiction of the Commission

Count of the District of Calumbia The Monarchite Linta W. Count

Dispect of Calumbi The Hapambia Ambony A. William

Likertin Birecto

Patricle E. Gallegher, AICI

conters would be added to introduce visitors to Bay-wide themes and crient them to the many sites for experiencing the Bay. Expand the Bay background and knowledge base to the public at large. I we major

NATIONAL GAPITAL PLANKING COMMISSION

From: Sent:

Path Long (relognorhammeckorg) Desotes, Sectember CB, 2003 2-10 PA

npatholy@despeakebey.net nnto@northernect.org y your recent request. I know sead the meatable and world have to belook a vote for Albarday A - You for Untalthou. The includents of the meed its confinitions and the the other lattices went too broad in scope to become seaths. The networks program is working and recognition to residence communities and programs, I feel for the first far you

ment you

andy Long

ecutive Director

U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administra

LUVA LANDSEQUENCE CHEY CONCE 10 Servern Avenue, Suits 107A Invagoris, WD 21403-2524 1410 287 2890 Far. 8410 287-2888 (MD-2004)

/untapoes, WiJ 214,034,054 Tel. (410) 267-5950 Fax, (410) 267-5956 inguinose, che

DATE: September 17, 2003

SUBJECT: Comments on the Druft Chesqueake Bay Special Resource Study and
Environmental Impact Statement

Lowell Bahner, Director WOAA Chempente Bay Office

PROME

ë

Thank you for the opportunity to comment on the Druft Chesapeaks Bay Special Resources Study and Environmental Impact Studences (EES). The NOAA Chesapeaks Bay Office has distributed the deaft EIS to several interested programs within NOAA, and have attached these program-opecific comments for your consideration.

Votathen Doberty, National Park Service Chesapeake Bay Prégran Office

MOAA undoonse the opportunity to work with the National Part Service to support any of the "action alternative" concepts. This initiative represents a significant exportunity to echance the conservation, restoration, and understanding of this tick and diverse constant. As exports are the nation's occas and county insources, WOAA offers a wealth of insovering and exportine to permit with you as you select a preferred alternative or alternatives. We are particularly interested in offering assistance in the creation of a Visions Center that would offer a lively and informative window on the Bay and is weathful in coordinating our hatcone Benearch Reserve sites with the Cauteways Network and in avorting with you on the boundaries and management

### NOAA Program Comments

Office of Coastal Resource Management, National Ocean Service

### Marine Protected Areas Center

The Marine Protected Areas Center (MPA Center) was established in May 2000, by Executive Order 13158, to work in cooperation with the Department of the Interior to strangthen the protection of ocean and coastal resources. The goal of the MPA Center is to strangthen the protection of ocean and coastal resources. The goal of the MPA Center is continued the long-term economic and environmental visibility of the aution's oceans, coasts and Great Lakes by protecting robust coasystems and ensuring their continued use and value to accide,

The MPA Center does not with to offer a recommendation among the management options in the Chesapeake Bay Special Resource Study Environmental Impact Statement (EES). Rather, we wish to offer our assistance as the Nethornal Park Service takes its next attests analyzing and selecting an alternative. The MPA Center has three components. The beadquarters, in Silver Spring, Maryland, provides for interagency coordination, education, and outreach on marine protected area issues. The Science Institute is based in Santa Cruz, California, and is developing a science-based framewoont for a metional network of MPAs, assessing threats to important hebitats and resources, and enalyzing notice contents for the subject of the second framewoods are enalyzing institute provides training and technical assistance to managers, citizens and others involved in MPAs.

Three of the alternatives presented in the RIS — Alternatives C, D, and B — include some type of marine managed acres, or marine protected area. The following Center activities and services may be of interest to you as the Park Service relects a preferred alternative and works with stakeholders to further develop plans for a Chesapeake Bay network, park, reserve or preserve.

- Developing common definitions of marine protected areas and marine managed areas. There is considerable confusion about the definitions of marine protected areas, and enkelopiders often assume that MPAs are "no take" areas. The MPA Center is developing a framework for discussing characteristics of marine protected areas in terms of primary conservation goal and level of protection.
  - Providing training and technical assistance to managers. The MPA Center's Training and Technical Assistance institute provides a wide range of training and technical assistance to marine protected areas managers and stakeholders to enhance management capabilities.
    - Provide outreach and education to stakeholder groups. The MPA Center has
      developed outreach and education materials describing MPAs and their benefits.
      Our website, www.mpa.gov is currently being re-designed, and will serve as an information hub on MPA information nationally.
- Establish an inventory of Marine Managed Area. The MPA Center is charged with developing a national system of marine protected areas that reflects

### NOAA Program Comments

Office of Coastal Resource Management, National Ocean Service

### Marine Protected Areas Center

The Marine Protected Artes Center (MPA Center) was established in May 2000, by Executive Order 13158, to work in cooperation with the Department of the Interior to strangithen the protection of ocean and coastal resources. The goal of the MPA Center is to maintain the long-term economic and environmental whelity of the sation's oceans, could see Man Great Lakes by protecting robust economic and environment whelity of the sation's oceans, could see that the part of the sation's oceans, and value is become

The MPA Center does not with to offer a recommendation among the management options in the Chesaponice Bay Special Resource Study Environmental Impact Statement (ED). Rather, we wish to offer our assistance as the National Park Service takes its next steps in malyzing and selecting an alternation. The MPA Center has three components. The headquarter, in Silver Spring, Maryland, provides for interagency coordination, education, and outstand on marine protected areas issue. The Science busistate is based in Surfa Cruz, California, and is developing a science-based framework for a national network of MPAs, assessing threats to important habitats and resources, and analyzing notine-commic factors that may impact MPAs. The Training and Technical Assistance Institute provides training and technical assistance to quantificate provides training and technical assistance to quantificate the training and others involved training and others involved training.

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    information hab on MPA information nationally.
- Establish us investory of Marke Managed Aren. The MPA Center is charged with developing a national system of marine protected areas that reflects

the diversity of the nation's natural and cultural marine resources. As a first step in this process, the MPA Center is creating an inventory of marine managed areas — a category that is broader than marine protected areas, and includes areas that may be managed for reasons other than conservation. When complete, in 2005, the inventory will provide a national context for marine managed areas, as well as a resource for managed. A cultural draft of the inventory is available at ways, metading a list of marine managed areas in Maryland and Writerias.

### tional Estimates Assessed Account

The National Estaurine Research Reserve System (NERRS) promotes estuarine streamfable favough science and education using a system of protected areas around the country. Two researces work with local, state and foderal partners in the Chempeake Bay region to provide protected estuarine environmenth in Maryland and Virginia. Reserves are particular pair research to learn more about estuarine systems and for charaction and untracach to increase swereness of the importance and function of this critical habitat. Bestabilishing a National Park within the Chempeake Bay provides an excellent partnership opportunity for the Reserves and for the Park Savice.

Through any alternative that promotes habitat protection and estuarine obtaction, the National Part Service will be furthering the interests and vision of the reserve system. The NPS has enounces public recognition and support and any increase in citizen streambility of the Chesquede Bay will contribute directly to the reserves mission to promote examine the worldship.

The Netional Saturative Research Reserves can contribute to part enteration and contract efforts by staining up to date and locally relevant science generated at the Reserve. This partnership would be nuturally beneficial, as working with the National Parts Service would expose a mask larger antisease to reserve products and data. Alternatives C and B supprovide for estate the region, bringing the protential sites for reserve research stiff and other accountants in the region, bringing the protential Bay estuary. Communication tools such as interpretive entities, websites and written materials at the part and the reserve cas be include to inform visitors, scientists, educators and volunteers of additional opportunities and order for fearuing more about the Casapeake Bay.

While there are clear benefits to a NPS-NBRISS pertocration in the Chesapeake Bay region, the National Betuurine Reserve System has some concerns with the alternatives described in the Draft Chesapeake Bay Special Resource Study and Environmental Impact Statement. Please consider the following comments in revising the study checaments and the ELS.

 The National Estuarine Research Reserves are designated to protect and conserve pristine habitat for long-term recently and monitoring. A high visitor impact part adjacent to the Virginia Chesapeake Bay NERR on the York River or adjacent to the component sites of the Maryland Chesapeake Bay NERR (Jug Bay on the

Patarent River, Otter Point Creek on the Bush River, or Monie Bay) could compromise the integrity of core reserve habitat.

- Because of the large number of local, easte, and faderal interests in the Chestocake Bay, name recognition is difficult for small programs. The Chestocake Bay National Estatariae Reserve and the name included in Alternative D: "Chestocake Bay National Reserve" are very similar. In addition to weathering same recognition, the word "treasve" incorporates in significantly difforest definitions for the PIERRS and for the parts alternative. Alternative Dis a cultural reserve including maritime besiness and inchesty within the beometry of the part. National Estuarine Research Reserves are released to be representative printine natural estuaries. Research Reserves are released to be representative printine natural estuaries, with a focus on probecting these resources. Having two "reserves" with nearly the same hanc but considerably different purposes may confine the public and send mixed messages about allowable uses at National Estuarios Research Reserves.
- While the National Benariae Research Reseave System supports efforts that bein promote estuarino sessarch, echonism and elewardakip, it is important for the multitude of Chempeake Bay federal programs to coordinate and be aware of be duplicative of work done at reserves. The Chempeake Bay Behany National Park will, like the reserves, encoupers meetly estuarine waters with some noninvolvement in the Chesspoaks Bay, the missions and monages of other federal efforts should be considered to encourage each program to fill a unique niche or potential programmatic overlaps. Alternative C presents a park option that may NERRS, as demonstrated by the description of the program that appears on the intrusive, land-based interpretation. The goal of advantative C is " to conserve, within the part area..." and the executive sammary of the Chesipeake Bay Snidy refort to this type of park as a "living laboratory". These planaes also describe the reserve website: This partnership program protects one million acres of estuarine land and water; which products essential habitat for wildly; affers educational apportunities to students, teachers, and the public; and serves as a living laboratory for scientists. In selecting an alternative for the National Parks Service probed and restore the estuarine environment and natural resources represented gap in cristing education, interpretation or research in the Chestpeake Bay,

The National Estuatine Research Researce System looks forward to collaborating with the National Parks Service in the Chemptake Bay and is eager to constitute to the selection of the most appropriate option for the region.

Wednesday Sesionthan 17, 2020 Broth And Tost Study Wednesday Sesionthan 17, 2020 Broth And Tost Study Wednesday Sesionthan 19, 2020 Broth And Tost Study Address Study Meditorial Study Meditorial Study Stu

# The Severn River Association, Inc., 100 and 124, 100 1006, when the control of th

## NATIONAL PARIS CONSERVATION ASSOCIATION

Protecting Parks for Future Generations

September 17, 2003

Thank you for the opportunity to provide comments on the Draft Chesapeake Bay Special Resource Stacky and Parknotecteral Ingenet Statement. The following communic on the dark tree referrable on the bark processor. The statement of the National Parks Conservation Association (NPCA). Pounded in 1919, NPCA is America's only protecting processor, and processor opportunity of the America's only protecting, and enhancing the National Park System. We are grateful that the stacky, and see several exportunities for the NPSs to work to partnership with exportunities for the NPSs to work to partnership with expectations for the NPSs to work to partnership with expectations and insurpret the Chesapeake Bay. via email: <u>lonsthan\_doherty@ags.gov</u> (original muiled) Mr. Jonathan Dohetty National Park Service 410 Severn Avenue, Suite 109 Annapolis, MD 21403 Dear Mr. Doherty:

Given the algailfunce and ristmess of the Obestpeake Bay's matural and outhural resources, NPCA recommends that the NPS parse important features of each of the proposed Attenuative B-E. We emprore the NPS's combused backership and involvement in the Cheagagazab Bay Garways Metwork (Attenuative B), but the activate at the world alone would fell to realize the potential for the NPS to be involved productively in the region.

NPCA advocable consideration of a water-based national part to protect matrix encursors, affairs to believe, we hadroal Part in British (Alternative C.): a reserve to decrease the region's tradition and agricultural befrings, admitter to the Findanch National Reserve in New Acrey (Alternative D); and an excloqued and or difficult preserve and one or two returns, afmitten or Thansons Medical Boological and rithman preserve in befractively by Period and or excloqued and rithman preserve in befractively british since the St. Archive and Phassen three Achieves of the St. Archive and Phassen three Achieves and Phassen three Achieves and the stating and new waters take in the beatin. Acres procedural and opportunity series to guide the NPS's progress toward implementing each of these opficiant.

The inspect estatry on the North American continent, the Chrespoake Bay is a pattral and historiest treatment of indicates and externed and digital cause. Historiestly one of the most produced we extractes in the world, the Bay neutrins home to more than 3,600 species of plants and minimis. Approximately 2,95 species of fish and



1300 19\* Street, N.W., Washington, D.C., 20036 Telephone (202) 223-NPCA (6722) • Fax (202) 659-0659

Mr. Jonathan Doherty September 17, 2003 Page Two

shelffuh have been steuuffod as living in the Bay ecosystem during at least part of their lives. Nimety perceast of the Adlantic striped bars (rockfish), a popular sport fast live mijored by discret is ensay fine restigateds, spawn in the Bay and he orbusteries.

From its headwaters to its shores, the Bay equally is ritch in human history. It menuated Nasire American nations and early European seatchements show has Innestrourn, and wen't European seatchements show has Innestrourn, and wen't be again to our aution's unitienty, political, and engineering history. In addition to being a hardwarking coccurate consumerized in things in the Bay is a resource for a diversity of recreational uses including bridging, today the Bay is a resource for a diversity of recreational uses such additional today the Bay is a resource for a diversity of recreational uses such additional actions of the diversity of recreational uses such actions and the Bay its nature contained of changing relationality involving outlural and nature to an action to the Bay its nature contains of changing relationality involving outlural and nature to act and natural resource.

Today this privates resource is under tremendons presents from the consistent contentuation of the 32 states and allows. Recently, the Companyate Bay Production of the 32 st ecological recurses compared to contention of the 32 st ecological recurses compared to its radiatively printing condition when Captain locks Smile explored the 32 states, or the respiration of the 32 states, or the respiration of the 32 states, or the respiration of the 32 states, or the 32 states, or the 32 states are now marked from density in the pages of latesty. The organization's 2002 expect and the 33 states or the 33 states or the 33 states or the 34 states or the

Such a surjountly impaired condition is especially troubling given the extensive federal, regional, small, and both meeting in directed at and funding applied to restorating of the Bits, A. Arriver of tractal exredit four, despited and despited to the countries. A review of tractal exredit four, despited to the countries, much more needs to be done. For example, the Bitsy beain used to be up to 55 percent forested. Show have the part of potents of the countries of the countries

We see confident that the NPS can and will contains to work with local partners to become a comprehensive pien for NPS Consequeble Bay conservation and interpretation efforts the world incline the conservation and proper management of best-ware inside and ripartners areas, the showwarting of maritime and agricultural uses highlighting bear protector, and significant argument conservation offices, inclining the management of remain and the riterate pollution. Such a plan would of mensarity to accomplished in sugges over inclined pollution.

Mr. Jonathan Doherty September 17, 2003 Page Three

It is of great concern that only about two perment of the Bay's extranded sharetime is accessable to the public. Creating a Chesapeake Bay National Warth Thail, as proposed by the Conservations Fund, would successfully lait Gaueway Network sizes while providing public access and recreational opportunity to cost-efficient and low-drapact manner. This option also provides a unique opportunity to provide detection on land and water conservation instart. While any new Chesapeake Bay unit of the antional park system mant go beyond the educational and recreational benefits of a water trail and directly address water quality and land use, the establishment of a National Water Trail should be an integral part of a proposed new park.

The Special Resource Study is unique in its discussion of conceptual alternatives without addressing specific localities. Subsequent evaluation of specific geographical seess is necessary, and may be appropriate to organize as a request for proposals from

program to date and about the continued on a permanent basis. However, that is the minimum bestite for National Park Service involvement. PirC.A processment dust the minimum bestite for National Park Service involvement. PirC.A post of the Chesapoule Bay Special Resource Snarly include a plan that combines Abranatives B. R., adds a Bay water testl, and focuse on concerving windsweys, riporim zerosa, constrive, waters and wildlife while label supporting the traditional workship that including the bardings to this is extinced part of the Bay's heritage. A national part unit including these element, when continued with the extinging Characysy Newtork, could here as a model for demonstrating pipelize forest protection, best agricultural practices, existly difficiency and conservation, whithe also expanding interpretation of the Bay's rich cultural bistary. The Chesapoule Bay Gateways Network has been a wonderfully aucocasful

Thank you for the opportunity to contribute our continuent to the Cheapeake Bay Special Resource Study and Brytromental Impact Stutment.

Rose of the

Potomac

Box 75 Valley Los, MD 20692

Association

River

August 9, 2003

Comments on Draft Chesapeake Bay Special Resource Study

We have looked over the proposal for National Park Service for Chesspeake Bay initiatives, and have the following comments:

- Alternative A: We are not in favor of the no new initiatives alternative. Some innovative proposals have been made by the study, and we think that the National Park Service should embrace them.
- 2. Alternative E: Expension of the gateways network program makes a lot of eerse, and brings the public into approached or the Bay in ways that are supported and complementary to all other approaches. The Potemac River Association is in favor of expension of this program to the fullest extent possible over the next years.
  - 3. Alternative C. A Chesapeake Buy Behuary National Park is exactly what the Bay needs the most considering the profound collapse of the findery. The Potomac River Association would strongly prefer this initiative fand would conneil resources and volunteer time towards such a program. This is a type of proposal that can produce enthusiasm from the general public. It is also a park type that is sorely needed to promote the equatic health of the Bay.

Selection of the location of such an park would require scientific and public feedback. There is a need to provide sent-may fire breeding sitted for multiple types of equark life. The oyster sanctuary program is an example of a program simed at a single species. Complicating the issue is the continuing more ment of the said like, due to water evaporation from the Susqueharma waterabled and stiffing ocean levels.

Alternative D. Protection of the maritime and rural heritage in a national reserve is complementary to an estuary national park, and we support it as such.

But, when one visits the Lore Oyster House museum in Solomons, it becomes clear that the humbergatherer redution is quite capable of collapsing as fishery over time, even with hand tools, and that regulatory approaches

Matorically have not had much impact in slowing these impacts. In contrast, an Estuary National Park would have the potential of partial restoration of the historic fishery. Living history is always of greater interest.

For these reasons, the Potomac River Association would prefer that the National Park as its core program for the Chesapeake, and integrate Alternative D with such a park.

5. Alternative E. Many other governmental regulatory agencies are involved in waterached protection, ruthriant redection, and agrawl control initiatives. As the Neitonal Part Service lacts the necessary regulatory authority outside of its own facilities, participation in a whole infountary and waterathed might need to be an educatedaral or same other east of interactive democratic program. The gateways network can provide some of this educational interface, that would benefit all the other agencies.

The Potomac River Association would view Alternative E as a complementary program to Alternatives B and C. How to select a tributary is another issue. The Potomac River is a national river, the Susquehamna River is a primary source of Ray polituden, but probably too large; the York or James Rivers have hatenthe properties that inchede Park Service foullities, and the Raskern Store thighturises feed flaterness that is also pose local pollution issues. A smaller thinkury like the Whomino River in Charles County might recommend itself, because it has a streer plan and river board.

In aummary, the Potomac River Association would strongly favor an Barnary Netional Park as the core program of the National Park Service for the Chesaposice Bay, because it is whelf the faltery of the Bay needs the most, and because it offers the most innovative approach towards providing an educational and cultural experience for the public.

The gateways programs should be expanded to the fullest extent to possible. Fletibles and ciliular reserve programs will be complementary to an Estuary betternal Park. But, focus on a single inclusive would need to site mich account the lack of regularing valuaties of the Neifrand Park Service for waterways and lands outside of its overestible. The gateways program might offer an oducational and participative way to approach these tibrularies.

Erik Jameson, Co-P Best regards,

## Organizational Comment Sobmitted via Website Comment Form

Comment from: teritis snods (Nerra Club Maryland Chapter)

General Comments: The Sierra Citch Maryland Chapter's position on NPS/Chesapouke Bay abstractives:

Of the five attenmetives outlined in the NPS, draft Special Resource Study, the Sierra Club's Maryland Chapter supports Alternative C, for a mainly water-based "Estuary

We chose this abtenuative for the following reasons:

1) We feel that it is ingrestrive to store away from any course of action that has the probability and decommentalism to the Bay.

2) We oppose any privatization of existing public lands in the caretion of this park and we will not, likewise, support any commerciationion of the Bay's critical actes as part of the initiation.

3) We call for a minimum amount of invasive activity and oppose any creation of pavod built, pavod parting lots, or "heritage tearing" areas.
In addition to appreciate C, we would like to see additional restoration efforts in and areas to be second the to see.

The Sierra Cirib, Maryland Chapter (including the Eastern Shore Group)

Comments on Alternative A: picage tree C.

Comments on Attenuative B: please see C.

Ogenments on Alternative C. The Stern Carlot Maryland Cayger (nochalling the Eastern Shore Group) supports this alternative. We would, however, this to see additional restoration affers in mal nountal alternative.

ise Bay.

Comments on Attornactive D: Florse see overall comments.

Comments on Albertative Et Ploese see overall comments.



TALBOT COLINTY, MARYLAND TALLOT COLINT GOVERNMENT BULDING TALLOT STREET Eustrom, Murricano 21801 Prema: 410-770-4618 mmr./#800v.org

R. Authers Houles County Manager

August 29, 2003

Vis Fex and Fort-Class Mail

Mr. Jooghan Doberty National Park Sorvice

410 Seven Avenue, Suite 109 Annapolis, Maryland 21403

Dear Mr. Doberty,

The Tablet County Council coursead a citizen selvinory group to preview the Chasquate Blot, Spical Barcource Sudy. At the Council meeting on August 25, 2003, the Council accopated the citizen advisory group is renormandation of support for "Abarcative B." A majority of the group field that this fatherantive provided the broadest opportunity for wistows to experience the Chesqueads Buy, and that it also provided continued father and the continued father and the continued for the county of sixth within Tablet County, as well as throughout the Bay region However, some members of the citizen advisory group fielt that "Athermative C" also had most! The group fielt through that the Course fould be weathing toward a creation of a waterflow goth eart they strongly and creat the Course! beliefly fire a national park in Talbot Course, if that is the alternative selected by the Park Service.

Please contact the County with the final determination of the Chempesho Bay Special Resource Study. Should you need further excitance, you may contact my offic.

L. audrem Hollis L. R. Andrew Hollis County Manager

RAHEOD

Southern Tier Central Regional Planning & Development Board



Tel: 607/962-5092
Fax: 607/962-3400
www.stoplanning.org
E-mail: stopdb@stop.n.com 145 Village Square Painted Post, NY 14870-1320

Marcia D. Weber Executive Director

September 16, 2003

FAC 410-770-6007 TTY: 410-622-8735 aholis@tabgov.org

Jonathan Doherty National Park Service

Chestpeaks Bay Program Office 410 Severa Ave., Suite 109 Amagolis, MD 21403

RE. RECOMMENDATIONS ON THE NATIONAL PARK SERVICE INVOLVEMENT IN THE CHESAPEAKE BAY

Dear Mr. Doborty,

of their meeting on September 9, 2003. The Committee immainmonatly recommended that the full Southern Tisr Central Regional Planning and Development Board adopt the structed resolution Attached please find a copy of the minutes of the STC Physical Resources Advisory Committee concerning the continuation of the Cateways Network and increased protection of the Chesqueste Bay watershed denough expended National Park Service involvement

Thank you for this opportunity to comment.

ce: R. Young, PRAC Chair

Serving Chemung, Schupler and Steuben Counties

### Southern Tier Central Regional Planning & Development Board



145 Village Square Painted Post, NY 14670-1320

Tet: 607/962-5092 Fra:: 607/962-3400 www.stephaning.org sterptb@stay.rr.com

8-mail

Marcia D. Weber Executive Director

# Tunday, September 9, 2003 MINUTES OF THE STC PHYSICAL RESOURCES ADVISORY COMMITTEE

ATTENDANCE: (\*)

VOTENG MEMBERS:

RESOURCE MEMBERS:

Barbara Boll
Mitchele Benjamin
Tom Bookeloo
Etaino Darymple
Am Dorone
Dare Durone
Karan Bellestrin
Matcolm Field Steve Punton
Iny Sciantil
"Tona Suera
"Econt Suera
Funnes Sterron
Ettime Spector
Vinnous Steppoletti
Michael Spraguo
Centrologischen Spraguo Iwile O'Dell Breats Adams

Mary June Porter Nuncy Rice Direct Rollins Michael Smith "Gene Stow

Thomas Toma Richard Winnet

Greets:
\*Melody Ross
\*Jisa Caratolo

M Baser
The Medgeod
Listedey Brown
Kenneth Bush
Bob Cadesyne
"Daniel Cherchan
Amy Diagos (sit)
Scott Foti

Rath Young Leber Townstilliger John Trimber Miles Vence Am Weiland Jake Wolfe "Charles Frances
Michael Genor
Jenes Gooding
Denielle Husteriemi
Greg Heffiter Al Janowski Bounie Kastner (alt) Tom Klasous Tom Kump

Parist Physical Physical Physical Collection Devid Heather Han Blowdoll Recent Rowland Betry Landre Philip Morebours Philip Morebours 1007 Parists 1

Jennifer Fub

Vincent Nytiel Randy Olthof (alt) Peter Marchese Billy Morris Robert Nichols

- Welcome and Call to Order. Ruth Young called the meeting to order at the Arnet Mail meeting room at 2:30 Ph.
- $\underline{Minutes}$  -On a motion by Tom Sears, accorded by Innet Thiggen, the minutes of the July 15, 2003 meeting were approved as written.

PRAC Minutes 03/09/03 ... pages 3

Serving Chemung, Schayler and Steuben Counties

### Action Items

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- How does CEM work with other Land UserNimm! Resource programs! Any action needed by SUC! On a motion by John Trimber, seconded by Tom Sear, PRAC voted to recommend the attached resolution for board action. (See attached resolution.)
- Interportumental Reviews

œ

- Request for the NVSDOH. Burssu of Environmental Relation, Protection to impartite the State Indoor Redon Great Program Esdon (Indo: E560.24. TOTAL: E720.468...). Fair explained that this is an excellest program supported in the past by our counties. She has received comments from Lee Younge, Chemnag Commy EMC, and Lindsoy Brown, Cheming County Realth Department, highly recommending that this project be funded. On a motion by Chuck Franzes, seconded by Den Chresland, PRAC recommended that STC recommend this application be funded including comments made by Lindsey Brown and Lee Youngs. -
- designated a "Consernive Collections Library." 1. Pers was contacted by Mart Hogan from the Southers Startes Courty Library System with information that the Foundation Center is offering Southeast Strates Courty Library the opportunity to become a cooperative collections library. This library is a collection of grants writing resources which would make the Stouben Courty library. This Library at Cornell University was hosping their greats writing materials up to date, because that could be another resource for our area. I. Fais to double check. On a motion by John Trimber, seconded by Chack Frances, PRAC recommended that the STC Board send the stracted letter of Letter of Support to The Foundation Center for the Southeast Steaden County Library to be most complete grant reference center within one hundred miles. Ruth Young exted if the Mann support to the Southeast Steathen County Library. ن
- The Rural Design Chinic is back in Struken Church! J. Fats explained that the Rural Design process has been in place for the last few years and that its purpose is to suggest immensive housing and commercial development design blummisters in the many wind the cartiforneous Stocken County is the focus county for this surresize. In Teach has offered his propecty for the design work and the Gang Mills "emarging residuatial area" could be the facus of project fig. This area is shown by the Master Plan to be developed in an environmentally secund way and the students could help by currently specific concept layouts. J. Fats said that Rith McCarthy supports this idea and also will suggest it to Professor Marvin Adleman. PRAC supported these ideas. å
- Service's role be after the freferal Getoways designation expires in 2008? 1. Reis explained that the National Park Service was esting for commonts on five options for their involvement in the Bay area at the conclusion of the Chempeake Bay Gateways network funding in 2008. The options include: Recognizedation on Chemicake Bay Special Resource Study. What should the National Park ď
- Status que alternative no new Park Service in the Bay and the discontinuance of the notwork program.
- Enhanced Cheespeake Bay Gateways Notwork
- Chesapeake Bay Estuary National Part focused on the Bay's squetic and shoretine natural resources. The Biscans National Part in Florids is a similar part.

PRAC Minutes 09/09/03...page 3

- Chestpeaks Bay National Reserve which focuses on preserving a representative section of the region's natural and cultural heriage. Examples include Eboy's Landing and the Pine Barrens in New Jersey (which is similar to the Adirondacks Perk Agency.)
- Chasapeake Bay Watershed National Ecological and Cultural Preserve which focuses on a angle waterthed and how it and the activities within it affect the Bay. A similar park is the Timecum Park in Florida. v;
- J. Fais distributed overviews of the above parts for reference. On a mattern by Dan Cleveland, seconded by Janet Thiggen, FRAC recommended that the attached resolutions be adopted by the STC Board.

p.

NYS Ag and Markets Researching. I. Fair brought to PRAC's attention a recent remotitable hald in Bingchamaton by the NYS Department of Agriculture and Markets for the purpose of the ping their agency find before ways to protect agricultural lends in New York State. Rad's Young pointed our that presecting our agricultural lends are he as issue of antional security since food severa and winter supply are critical to the Bealth and survival of the United State. During the discussion, PRAC noted that the Ag, and Markets policy maybe at odds with the New York State Department of Commerce and fary also may not be consultanted with the State Coalition on 1-86. On a motion by Den Geweinral, exceeded by Janet Thiggen. PRAC recommended STC adopt the attached resolution.

### **Expression** Items

- arbdivision law revisions, to send code enforcement and highway staff to erosion and endiment control, improcises, magnition, and construction workshops. In status the examination would match the project with their time committed to creating and adopting the accordance regulations, to instilling proper erosion as ediment control practices on their highways and district, and to conducting improferent of construction, projects. The ferralize for the application is September 30, 2003. J. Pais has beened from several communicies and will be in touch with the others to encourage States of the Chounne County Stormwester Coalition - 1. Fais notes that the is working with the Coalition to beth them upply for \$100,000 to seek the MSA communities review examp and their participation in the great. ₹
- Update on the Chemma Basin River Thail Patnership. J. Pais semounced receipt of funding from the Chempeake Bay Gatoways program for five new lamach eithe. This will be the main topic at the Partnership meeting hold September 16, 2003. 8
- Undute on the Schuyler/Stratem Rural Transportation Committee The committee meets every two months and is maining good progress on their grads act ant at the beginning of the year. ن
- Hoga County River Trail Flore. Involumes were distributed for the Soptember 13 event. ä
- NXS Association of Eavironmental Conservation Commissions (NYSABAC) Meetings. The 2003 Conference on the Environment will be in Buffalo, October 3-5. The focus is on sustainable living with renowable energy. 妺
- <u>Caristos River Basin Unit Managarneti Plan</u>. This has born finalizad and a copy is available at the DEC regional offices, Jasper Free Library, and the City of Harnell Library. 2

PRAC Minutes 09/09/03....page 4

### Southern Tier Central Regional Planning & Development Board

145 Village Square Inlated Poor, NY 14870-1320

Thir 607/962-5092 Fax: 607/962-3400 Www.steplanning.org S-mail: step6@etny.or.com

Marrie D. Weber Executive Director

### RESOLUTION SUPPORTING THE ENHANCED CHESAPEAKE BAY GATEWAYS NETWORK

the Chempeate Bay Gaseways Network has been established to connect the system of water trails, historic sites, natural areas and other features of the Chespeake Bay in a meaningful way, and WHEREAS,

the Southern Tier Central Region is part of the Chesapeake Bay Chimways Network, with its involvement in the Chemung Basin River Trail Pertnership, and WHEREAS,

the continuance of the National Park Service in the Chesapeake Bay would be an economic benefit to the STC Region through increases in recreational tourism on the region's river system, and WHEREAS,

the Chesapeake Bay Gaseways Network will capine in 2008 unless the federal government amborizes a continuation of this program, and WHEREAS,

STC has reviewed the list of options for continued National Park Service involvement. WHEREAS.

NOW THEREFORE IT BE RESOLVED, that the Southern Tier Central Regional Planning and Development Board supports, at a minimum, the cabanced Chesapeake Bay Outsways Metwork which would build on the existing effective network, and

BE IT FURTHER RESOLVED, that the National Park Service be called upon to work with

appropriate park or reserve category to further protect, enhance and interpret Chesapeate Bay resources to the benefits of all residents in the watershed. and governments to closer proximity to the Chesapeake Bay to acted an

AND BE IT FURTHER RESOLVED, that this resolution be provided to Jonathan Dobarty,
Nutriently at Service, Anniy Hoggima, Us Congress, and Senators Charles
Schumer and Hillary Rodham Clarton for their section.

Southern Tier Central Regional Planning and Development Board

Serving Chemung, Schuyler and Steuben Counites

### Urbanna Town of



P. O. Box 179
- Urbarra, VA 23175
- urbarra@grech.net
(req.res.tst FAI: res.css

August 13, 2003

Jonathan Dohenty Chesapaside Bay Program Office 410 Seven Ave. Suits 109 Amapolis, MD 21403

Dear Mr. Doharty,

We would like to present to you Rosegil, leted on the National Register of Hasteric Places, as a Gateway to the Chesapoalka, a springboard of opportunity to warm the heats of generations to come.

Roseqiii was established from original land grants by the King of England and was the Home of the Namouck Indiana. Roseqiii represents one of the teat historic eless in Virginia. An imagini part of United States History, Roseqiii is seepond in tradition as is the surrounding ereas of Yorkbount, Jamestown, and Wildensburg. Over the centuries many cultural, milliany, and economic events have uniteded and have proven orucial to this nation.

A vision of a Chesapeale Bay natural reserve would encompass small fairing towns, rural communities, and working farmfands. Maritime communities fraids the reserve would atthe to negative friends from the first would needly remain in touch with traditional ways. Thus, the reserve would also encompress samples of the broad attents, winding riverbanks, deep forest, and wetlands that helped stape the bay.

The Nedornal Park Service could obtain Rosegall including up to 860 acres and an aireafe to learn's aprilegated by the Chesapserian Bay. Nosegall is becaused in Medichesex Courty, joining Unbanne on the Rasperiannock River, a Pubulary of the Chresapserio Bay and is the perfect galaxaey to the Chresapserio Bay and is the perfect galaxaey to the Chresapserio Bay and is the perfect galaxaey to the Chresapserio Rosegall offers a window of orgonoranly to join in the Chresapserio Bay Program to be useful in on or more of the attentione plans that we were privilegate to view in Newport News, or July 25, 2003 that was presented by the Chresapserios Bay Office.

This central location off a large hiver and going into the Cheespeake Bay would provide an excellent showcase for the Cheespeake Bay Rapion.

Thank you for your efforts to promote the Chesapeate Bay and the land of pleasant living.

We would like to invite you to visit the Intentic Runngill site, contact Lewis Filling, Chief Executive Office of Urbanns at 804-758-2819.

Sincerely,

めらり

Robert Straw Council Member, Town of Urberne PO Box 175 Urberne, VA 23175

Cor Marking Protes, Delly Press



Unified States Department of Agriculture

Northeasters Area State and Private Forestry

11 Campus Benievard Saite 160 Newfown Square, PA 19073

Pia Cede: 3500 Bute: September 17, 2003

Chesapeake Bay Program Coordinator National Park Service Chesapeake Bay Program Office 410 Severn Ave., Sta. 109

Mr. Jonethan Doberty

### Dear Jonnahan

Annapolia, MD 21403

Bay ecceptates and its unique resources is truly a long-term goal of all foderal agencies working to restee and protect the Bay. The MPS has very documently analyzed each of these alternative conscipts for a Chesapeter Nithonal Park, and each alternative offers a unique set of benefits. We are very supportive of these andeavors, and we would like to continue to be involved in the The Northeastern Ares of the USDA Forest Service would like to command the National Park Service for its excellent work in putting forth five innovative and distinct attenuatives in its "Chesapeake Bay Special Resource Study." Expanding public connections to the Chesapeake process as it moves forward.

offer the greatest opportunity to showestee the commertions between land and water in the Camprick By waterfact, it has watershood approach for a model infuture yestem of the Bay watershood would provide apportunities for a variety of characterial experiences examplifying the impact of upland and riperian stewardship on the watershood. The "carcine genued" unique in allowing forest management practices a place for demonstration as well. As such, Alternative E would probably offer the greatest opportunity for the USDA Forest Service and its partners to assist the Park Service is its efforts through interagency collaboration. management practices and innovative approaches not only for landowners and residents of the descapeable by region, but it onlid also provide an electricion approximary for flores who visit this renowned resource from other parts of the country or the world. This alternative would be unique to the Chestpoette Bay region and the nation. The geographic scale of this alternative is We fred that the proposal for a National Boological and Cultural Preserve (Alternative E) would demonstration projects that illustrate stewardship practices in working landscapes, such as forestry, provide an important measure. This alternative also offices an opportunity to further profect, restore and demonstrate measurement of both land and water, with the hopeful entronne of verifiable benefits to that system. This type of a preserve could showcese exemptes of

of the Bay. At the water is edge and offshore, visitors could observe the Bay's aquatic resources, and take part is water-based sectivities and interpretive opportunities. We feel that combining the coocepts presented in Attanuatives C and E would strengthen the message of connectivity The proposal for an Estuary National Park (Alternative C), one that would specifically highlight the aquatic consystems of the Bay, is also a unique type of national park for the region. This afternative could be offectively combined with Alternative E. Visitors would be able to follow the tributary stream from its beadwaters and surrounding landscape downstream to the mainstan between furnan impacts, stewardthip, land use practices, and water quality of the Bay



Cortag for the Least and Serving Propie

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watershed, but these opportunities appear more limited and the connections less direct. The most ecology of the Bay and its larger wateraked as well as to protection and restoration efforts of this valuable resource. With or without a new place-based National Park, this proposal in a valuable visitor centers. These centers would serve to introduce residents and visitors to the listary and positive feature of the cabanced Galeways Network is the addition of two or more destination The National Reserve (Alternative D) and the Enhanced Gateways Notwerk (Alternative B) alternatives also offer epportunities to show connections between land and water in the Bay

Any of the "action alternatives" would arivance the goal of restoring and protocting the Bay and charating the public shout its ecology, its culture, and the challenges to its future health. These four attentatives all establish a permanent presence for the National Park Service and enhance public access and educational opportunities for generations to come.

informed of your progress in making a Chesapeake Bay National Park a reality. For questions regarding these comments, please contact Al Todd, Wetershod Program Leader or Selly Thank you for the opportunity to provide comments during this process. Please keep us Chapped, Chesapeake Bay Program Linison, at 410-267-5705 or 5706 respectively.

Sincarely,

KATHRÝN P. MALONBY Area Director

Page 1 of 1

Jonathan Doherty (CIMS)

Webstroons (watermens@widomates Thursday, August 28, 2003 2:37 PM

Jonethan Doherty (CRAS)

Bublect: At Park Service Plans

Dear Jonathan,

Nowing reviewed your majorisa on adomala National Park Gentho phara for Getowaya, I would agno with Chespoete Bay Foundation, but plants B and D would have algusticant menta. I also agnee that the Chesapaste Bay water tool should be included

me E intelligental accidental preserve, la lartiguito, i vecudi nombrato cur cum Yord Flowert-Peruvitzo/Alatino)
minimi en de servicio de la lartiguito in travello de la comprese de la lartiguito de la lartigui

The intelligent with the Permandary southernation and shad hatchery. The oldest such facility on the hey at 100 years, is a words

The York and Mattaport Rivers provide the prodominent shad populations on the Bay.

Rossevell Plantation has recently been apened to the patitio. It lasts only a good dock to be a heatmed decting

One can view state of the sof Apara Chars orders and guided missile destroyers and authmentures at the Yorksom Naves Wespons Station, from a sade disposa, of course,

Additionally, we have the new Yorkshim Vittlerfloor River Development extering its construction plans, to be completed in 2005.

mineral are some quick thoughts on the marks of he YorkshattsporkFermunian water



## United States Department of the Interior

FISH AND WILDLIFE SERVICE Chesapeake Bay Field Office 177 Admiral Cochanne Drive Azzapolis, MD 21401

September 17, 2003

Director, Chesapeake Bay Program Mr. Jonathan Doherty

410 Severn Avenue, Suite 109 American Maryland 21403. National Park Service

DRAFT Chesapeake Bay Special Resource Study ė

Dear Mr. Doberty:

System in the Chesapeaks Bry Ragion. We commend the NPS for considering as increased role in natural resource stowardship in the Chesapeaks Bry. As you know, the natural systems of the Chesapeaks Bry are under a melting brincaskip pressures mentiting primarily from the impacts of human development and other activities. As forbest harbins resource agencies working in the region, it is imparative that we collectively bring to been us many forces as possible to the conservation of fink and wildlife and their habits for the benefit of future This is to provide U.S. Fish and Wildlife Service (Service) comments on the above referenced National Park Service (NPS) study to explore the potential for a new unit of the National Park prometions of Americans.

providing a forum for the American public to gain a greater appreciation for the Chearpeake Bay. Of the alternatives, Alternative B. Chearpeake Bay Wietershod National Boological and Cultural Several of the five alternatives described in the document show considerable promise and would Preserve, shows the most promise from a fish and wildlife habitat conservation perspective as applied to the Chesapeake Bay. This abstractive would exhelical an ecological and cultural preserve focused in one watershed that is exemplary of the natural and human systems that have interacted for hundreds of years to form the landscape of the region. We view this as a potential first step in an expanded network of preserves, such as that described in Alternative D. Once the imital preserve is established and working in concert with other natural resource organizations, contribute greatly to the conservation of figh and wildlife and their habitats in addition to nelading the Service, the NPS could consider expanding into other Chesapeake Bay subwitersheds, as funding permits.

In the event that the single-waterthed abartative is chosen for further consideration, we would like to highlight the Nanticoice River Watershed on the Delmaws Peninsuls in Maryland and

Delaware as a potential area of focus. The Nanicoke has long been regarded as one of the most pristine and ecologically significant watersheds in the mid-Altantic region. The wetland communities (tens of thousands of arres of more than a dozen tidal and non-tidal habitat types) retain a high-quality character, while faturing a landscape of agricultural fields and coastal plain forest. The Nanticoke's superior wetland and distinct upland communities harbor more than 260 rare plants and animals, including large populations of the federally-listed Delmarva for squirrel and beld eagle. It is a priority site under the North American Wetlants Management Plan, with important labitat for large concentrations of waterfowl, as well as brocking and anopover habital for neotropical migratory birds. The rives system also supports a rich recreational and commercial fishery and makes a significant contribution to the ocological health of the Chesarcake Bay.

For well over a decade, the Nanticole River has been a high priority for cooperative efforts to conserve biodiversity by the Service, the states of Maryland and Delaware, The Nature Conservancy, and many other public and private organizations. Foremost of the conservation activities has been an effort to permanently protect lands within a 50-mile riparian corridor along the Manticole River, from its mouth at Fishing Bay Wildlife Management Area and Checapeake Manthioke River, from its mouth at Fishing Bay Wildlife Management Area and Checapeake Manthiotoke River, from its mouth at Fishing Bay Wildlife Management. Area and Checapeake Manthiotoke National Wildlife Refige Complex to its headwaters in Delaware. Through this perpetuity.

After flowing across the Debmarya Peninsula, the Nanticoke discharges into Tangier Sound, the location of some of the premier islands in the Cheaqueake Bry, including South Marsh leland and Smith Island. South Marsh Island and Smith Island. South Marsh Island and Smith Island. South Marsh Island Wildfife Management Area which provides nesting labitat for many species of waterfowl and waterbirds, including black thete, berons, and egots. Smith Island is bone to the Cheaqueake Marshierds National Wildlife Refuge Complex Martin Unit as well as one of the last working island waternan communities remaining in the Bry. In short, opportunities for habitat conservation and obtactional and interpretive advision abound in the islands located in proximity to the mouth of the Nanticoke River. Working jointly with organizationa already cetablished in this part of the Bay, the NFO could easily incorporate a national evolugical and cultural preserve into the area.

In semanary, the Service encourages the NPS to further pursue Attenusive B and consider focusing on the Nanticoke River Wanneded. We appectate the opportunity to comment on this promising conservation activity upon which the NPS has embatked and we look forward to working with you in the future.

Should you have any questions or require further comment, please feel free to contact Dan Murphy of my staff at (410) 573-4521.

Godon P. Wotflin

Sincerely

cc: U.S. Fish and Wildlife Service, Chesapeake Murshlands National Wildlife Refuge Complex (Atm. Glorn Carowan)
Maryland Department of Natural Resources (Atm. Mike Slattery)
The Nature Conservancy, Maryland - Delaware Chapter (Atm. Sleve Bunker)

Page at 1

Jonathan Doherty (CMS)

Jeremy P. Muler [mulen@writes.org]

Eddey, August 22, 2003 10:09 AM dohery@chesapealubay.ret

Subject: Comments on Ches Nati Water Trail

Mr. Doberty:

It is my sincere belief that a Netional Wara Trail along a dead Chempade Bay is a significant weste of time, energy and helpsylvencey. Listed dead to the watershed served to the overgraph of the helpsylvence of the best of the helpsylvence of the best of the helpsylvence of the best political reductions from that the Bay can begin to be resurrected. The volumetry programs and half-axed enforcement of the political installs have only helped to increase the time and scope of the Bay's tender programs and half-axed enforcement that correctly exists here only helped to increase the time and scope the Bay's to clean up for the past two decades.

Passes clean up the Bay and these who are killing it. Thank you.

West Virginia Rivers Coalition Newty P. Muller Emerative Director

801 N. Randolph Avenue Elicins, WV 26241

(304) 637-7201 Tel (304) 637-4084 Fax paulfar@wwivers.org www.wwivers.org

W. Tayloe Musphy, Jr. Secretary of Natural Response



Joseph H. Maroon Director

## COMMONWEALTH of VIRGINIA

## DEPARTMENT OF CONSERVATION AND RECREATION

20) Onversor Bank Sade 234 (2004) 784-2135 Richmank Vigins 22319-2031 (2004) 784-2135 Richmank Vigins 22319-2031 (2004) 784-2135 Richmank Vigins 22319-2031 (2004)

September 17, 2003

Mr. Jonathan Doberty, Director NPS Chesapeake Bay Program Office 410 Severn Avianus, Saito 109 Amaspolis, Maryland 21402

Dear Jonathan:

Thank you for providing us with an opportunity to comment on the Choungeake Bay Special Resource Study. The prospect of a Medical Park Service (WPS) unit that is directly inted to the Choupeake Bay and speaks to its conservation is, indeed, a faveiuning possibility.

The Department of Conservation and Roctostion (DCR) appears the Neticial Park Service effort to explore the potential for a new National Park unit that is focused on the unique cultural standard annual mountee that the Cheapeate Bay. We believe that Aflantaire B, enhanced Gazawaye Metwork with components of Alternative D, a Cheapeate Bay National Reserve, may be the best combination of Internative D, a Cheapeate Bay National Reserve, may be the best combination of Internative D, a demonstrated a positive influence on the origin through the recognition of once than 120 special places that tell the compilar story of the resembs and its people. In floar years, the Gateways Program has grown from a concept to a setwork of masseme, whillift neftges permenships to help protect the Bay and to communicate the interdependent and complex stories of its people and its cultural and natural resources. and management area, state and local parks, and regional information area. This secompilationed is a testament to NPS and to your leadanthy in the development of

We also feel that the enhanced Gateway Network would accomplish several key roles in the Bay conservation and restoration effort;

- A permanent Geteway Network in the National Park Service, complet with a
  stable funding commitment, would provide testing continuity to the program.
- A permentar program would belp etimmlate additional partnerships that would further strengthen the key unexpretive and educational efforts of the program.

Mr. Jonathan Doherty September 17, 2003 Page Two

- A permanent Gateway Network would generate a new means of linking Gateways to their surrounding communities as well as to the bigger picture that is the Chesqueate Bay.
- A permanent commitment to the Cateways Program would help ensure the longterm viability of the fledgling network of Gateways and water trails and would enhance recognition of the Bay as a nationally significant resource. The environmental education and interpretive elements of the program will further structuren of desire of visitors to support protection of the resource. The tripplanning values of a stable or expanding network of Gateway sites will provide substantial opportunities for contourism in all the communities around the

In addition to the benefits of an enhanced Cataways Program, NPS could also play a role in the creation of a Chesaposite Bay National Reserve (Alternative D) at a strategic location in the Bay waterabed. The concept of a public/private partnership that would retain the existing characterization of those who live and work on the play should be an appealing option to many people in the region. The combination of protecting resource dependent activities and managing the resource in a sustainable manner has ment. The site could being provide interpretation and curicommental education apportunities that could impact a large regiment of the watershoot.

When considered with an expanded and permanent Gateways Network and its benefits, the National Reserve could create the opportunity for broad partnerships that would contribute to the conservation of the Bay and an increased citizen awareness of the significance of this magnificant resource and the need to protect it. As appropriate, the acquisition of land within the public nector to provide public access and resource protection as a part of this afternative, should also be considered. It would seem improvement, at this time, to make a determination that most of the land in the Reserve would be privately owned.

Water Trail, which includes the explorations of Captain John Smith is most worthwhile, and as you know, Virginis is currently working on a section of it. Such a trail could serve as a significant link between the special places of the Bay and provide an even greater swareness of its importance and used for protection. The water trail could support any of the Chesagosale Bay Special Resource Study alternatives and the together the Bay's Gateway Communicies and its rich variety of historic airce, wildlife refinges, parts, greenways and wedlands. The trail, which could run the length of the Bay and interesting and future water trails on the tivers that food the Bay, would fister greater public existing and future water trails on the tivers that food the Bay, would fister greater public.

Mr. Jonathan Doherty September 17, 2003 Page Three access, provide a means for low-impact visitation, advance local tourism, and provide additional support for the Bay's restoration. While the Gateways program already supports the establishment of water trails, having a National Water Trail Designation for the John Smith explorations would be most appropriate and would be a fine addition to the National Park System. Additionally, it would certainly complement any new unit that may come from the Special Resource Study.

If has been a privilege to participate in the Special Resource Study. And again, thank you for offering us an opportunity to comment.

incorely,

John Davy, Division Director Planning and Recreation Resources

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cc: Joseph H. Marroon, Director
Derral Jones, Planning Bureau Manager



## COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY
Street address: 629 East Main Street, Enhance, Verples 3319
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Explored G. Burnday Director (804) 648-4000 1-400-592-3422

September 16, 2003

Mr. Jonathan Doblerty National Park Service – Chesapeake Bay Program Office

vandas rats Service – Ubespeake 410 Severa Avenue Annapolis, Maryland 21403 RE: Chasapeake Bay Special Resource Study and Druß Environmental Impact
Statement

Dear Mr. Dobarty:

The Virginia Department of Environmental Quality has recently, learned of the National Park Service's Special Resource Study and Dash Burinessmental Impact Statement (Study/Draft EES) mandated by Congress to exemine questions near executions the best for the Congress to exemine questions that Service. In regard to the management and protection of the Cheapeathe Bay and its resources. We are also aware of the Park Service's notice in the Relaxable English (chemic 68, No. 122, June 25, 2003, pages 37861-37862; hereinafter "Notice") and of the material on the web site referenced in the Notice (pages 37865, tell column).

The Virginia Department of Environmental Quality (hereinafter "DEC") is responsible for coordinating Virginia is review of federal environmental documents and responsible for coordinating Virginia is review of federal environmental documents and the lead agency for coordination of Virginia is review of federal consistency of documents submitted for coordination of Virginia is review of federal consistency. DEC, also documents and the Coassal Zone Memagement Act. In addition, DEC, along with other retait agencies in Virginia, has significent responsibilities in relation to Chesspacke Bay resources management. Secure of these roles, we have an interest in being notified of the swalishility of appropriate documents for review.

## Federal Consistency under the Coastel Zone Management Act

Pursuant to the Costal Zone Management Act of 1972, as amended, the Park Service is required to determine the consistency of its activities affecting Virginis's coastal resources or coastal tests with the Virginis Coastal Resources Management Program (VCP) (see section 307(cX1) of the Act and the <u>Eederst Consistency</u>

Mr. Jonathan Doherty Page 2 Regulations. 15 CTR Part 910, tab-part C, section 930.34), and to conduct those activities consistently with the Balloreachies frequence of the VCP. The consistency determination involves an analysis of the activities in layer of the National Agencies the Population of the VCP (first exchence), and estebnished of a consistency determination reflecting that enalysis and committing the Part Service to conduct its activities in a memor consistent to the maximum extent practicable, with applicable Enforces the Programs. In addition, we involve your streamton to the Archiver Policies of the VCP (conditional concluding the VCP Approximation may be provided as part of the documentation concluding the NETA process (on this test, a Final EES) or independently, depending on your agency's requirements for the consistency determined and providently and requency to the consistency observationity.

Instruct, as the Shuly/Druft BIS is a conceptual document, a specific fideral consistency determination may be permetter in the current phase of your study offert, which is to rent in recommendations to Caugess (Notice, page 3786), pight columns. Accordingly, we recommend that the Stavilyfizable BIS include a general consmitment that the Park Service is excited partnership consistency that the Stavilyfizable and any resulting Congrussional studyntizable and the consistency to the maximum extent practically, with the VCP, as well as committing the Park Service to admit a committency determination scarcingly, any prior as the time for that Service include to understand the scirities. The clasices under month the fore alternative presented in the StarlyRIS may affect the Park Service is preferences in regard to consistency determinations.

### Principal Region

As indicated above, Virginia state law mendates that DEO coordinate state agencies review of federal environmental documents properted pursuent to the Nissional Bertinonmental Policy Act (PEPA). It cannot our perior coordination reponsibilities, we will need to obtain 20 capies of say consistency determination or environmental (NIPA) document sees do the pripatio and/or infer-spowmental review. This does not include oversee of interested of althord loods governmental even or expiral planning district commissions are replaced planning district commissions are included, the total checkly be 27 copies.

If you need clarification of these comments, please contact this Office (Charles 3lis, telephone (804) 698-4483.

Mr. Josethan Doberty Page 3

Thank you for the opportunity to comment.

Ellie L. Iroba
Program Manager
Office of Environmen

oc: Brinn D. Moyer, DGF Keith R. Tignor, VDACS Dernal Jones, DCR Dernal Jones, DCR Akn D. Weber, VDH Rours D. Merchanhan, DEQ-Mir Thomas D. Modena, DEQ-Water Blien Glimsky, DEQ-Water Robert French, DEQ-Water Robert French, DEQ-PRO John D. Boweden, DEQ-PRO John D. Boweden, DEQ-PRO Jones A. Barnard, VINS J. Michael Frencum, DOF Ethol R. Baton, DER Carberino M. Havold, CBLAD



### COMMONWEALTH of VIRGINIA

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Robert G. Burnley Director (RD4) 696-4006 1-400-592-5482

Enforcemble Regulation, Programs computeing Virginia's Constal, Resources Management Program (VCP)

Estarias Manuscanetti - The program anesses the conservation and enhancement of finited and stellation resources sate the purnoshen of commercial and recreational febrears to maximize food production and necessitional opportunities. This program is administrated by the Marine Resources Commission (NARC), Voginia Code \$242.2.000 to \$242.2.113 and the Department of Genre and Inland Finderics (DGIP), Virginia Code \$292.1.100 to \$253.1.570.

The State-Tribusytia (TBT) Regulancy Program has been added to the Fisheries Management program. The General Assembly amended the Virginia Percide Use and Application Act as it related to the possession, sale, or use of marine antifoldant points containing 1981. The use of TBT in bost point constitutes a serious threat to important marries using application to the program of TBT program marries and program of the Application of the program of Application Consultate (1894) to \$6.11.249.50 to \$6.11.249.65. In the Application of the possibilities; Ungaries Code \$5.11.249.50 to \$6.11.249.65.

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- Subsisters Lands Mensioners: The management program for subspaceus lands establishes conditioned. For gamming or deproys garmits uses state-owned benefits based on considerations of potential effects on narium and fisheries. resource, field welliefd, adjacent or recordy properties, anticipated public and private benefits, and water quality standards established by the Department of Environmental Casalty (DEQ). The program is administered by the Marine Resources Commission, Virginia Code §28.2-1200 to §28.2-1213.
- Weigning Menagement The purpose of the wetlands management program is to preserve wetlands, prevent their desposition, and accommodate economic development in a manner consistent with wetlands preservation.

1. 1. 1. 1.

- (1) The tidal wetlands program is actualisticated by the Marine Resources Commission; Virginia Code §28.2-1301 through §28.2-1320.
- (2) The Virginia Water Protection Permit program administrated by DEQ includes protection of wetlands -both tidal and non-tidal; Virginia Code §62.1-44.15:5 and Water Quality Certification pursuan to Section 401 of the Clean Water Act.

### Attachment 2

## Advisory Policies for Geographic Areas of Particular Concern

shoreling. Such areas receive special attention from the Commonwealth because of Coastal Natural Resource Areas - These areas are vital to estuarine and marine ecosystems and/or are of great importance to areas immediately inhand of the their conservation, recreational, ecological, and aesthetic values. These areas are worthy of special consideration in any planning or resources management process and include the following resources:

- Aquatic Spawning, Nursery, and Feeding Grounds Coastal Primary Sand Dunes
- Barrier Islands
- Significant Wildlife Hebitet Areas'
  - Public Recreation Areas
- Sand and Gravel Resources କଳ୍ପ କଟିକ କଳ
  - Underwater Historic Sites.

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- Constal Natural Hazard Areas This policy covers meas vulnerable to continuing and severe erosion and areas susceptible to potential damage from wind, tidal, and storm related events including Booding. New buildings and other structures should be designed and sided to minimize the potential for property damage due to storms or shoreline crosion. The areas of concern are as follows:
- Highly Erodible Areas
- Coestal High Hazard Areas, including flood plains.

Waterfrost Development Areas - These areas are vital to the Commonwealth because of the limited number of areas suitable for waterfrost activities. The areas of concern are as follows:

- Commercial Ports Commercial Fishing Piers Community Waterfronts ଇଥିବ

and some regional authorites, designation of these areas as Wateriforn Development Areas of Particular Concern (APC) under the VCRAMP is encouraged. Designation will allow the use of federal CZMA finds to be used to assist planning for such areas and the implementation of such plans. The UCRMP recognizes two broad Although the management of such areas is the responsibility of focal government classes of priority uses for waterfrom development APC:

### Attachment 2 con't

Commonwealth and the VCRMP to enhance the protection of buildings, structures, and sites of historical, architectural, and architectural, and architectural and architectural and architectural and architectural and architectural architectural architectural and architectural archite destruction when practicable.



### COMMONWEALTH of VIRGINIA

Department of Historic Resources 2801 Kennington Avenue, Richmond, Virginia 23221

Leibben S. Effentrick Diverser The (Bot) 267-224) Fac (Bot) 267-224) This (Bot) 267-2246 were the assessment

Jonesthan Doberty
Duroctor, Christopale Bay Frogram Office
National Park Service
110 Sevent Avenue, Suice 109
Amapolis MD 21403

September 17, 2003

RE: NPS Special Resource Study on the Chesepeake Bay

Dear Mr. Doherty:

Our stell has reviewed the various options set out by the National Park Service in its stellar Resource Staty on the Chesapeache Rep. As State Hittoria: Percration Offices for Virginia, I am happy to offer the following comments on behalf of this Department at for Virginia, I am happy to offer the following comments on behalf of this Department at this stage of the study process.

par The Chesapeake Bay is clearly a significant natural and outburd resource. It deserves strong and continuity encopition and interpretation by the NPS in pentership with the states and continuity encopition and interpretation by the NPS in pentership with the states and colors. While maintaining doe life of the current Cateways program has our strongly support, we encopiate the program left pentermant such critical and an our strongly support, we encopiate the the program that penterman and in the contract of the contract categories and penterman on a permanent bests with expanded funding and staffing for the cultiling program and fur convoir expansion and garways the developments. The Catebres of Option A is unemoraphile in that it does not address a rationally significant resource that clearly every and sections and such as a rationally significant resource that clearly every and sections and such as the contract of the contract of the ration of NPS to the Osterways Network is instrumented to sound rounties, connervation and strongeless efforts. NPS's discal involvement in partnership with the states and regional and local conservation partners is celtical. Our department regards Option B, which calls for an enhanced Boy Gateways Nerwork— as the most perferable option of the four optional presented for several teashers. The Bay is a vest resource representing several states, many diverse interests, multiple geographic focusions, and a wide mage of related sites and air types. The Gateways Network seems to be the most flexible option for growfulling for full recognision, existence and interpretations of the visat surray of sites that are related to the Bay. Purthermore, steems

in that it targets a group of known partners and seeks to grow the programs to include new pertoses who are already interpreting the Bay. Options C and D would require federal land acquisition, development of public infrastructure, and NPS to assume concerning responsibilities. Option B uses an extricting successful program, which enhances existing infrastructure and interpretation. It takes advantage of what is already in place and nost efficient to implement, and the most fiscally responsible of the tures activa options provides for growth in those arenas.

important to focus on developing a community of gateways partners to ensure that the individual needs of gateways sites continue to be not as the program expends. Funding should also be sufficient to accelerate the development of key habs and regional information centers in the network and Bay-wide interpretive products that will ensure Provisions for bringing potential sites along must include subquate resources for bleming, funding and earling. Adequate staffing to ensure that as expanded network retains the high standards for participation is of paramount importance. It will also be Careful consideration must be taken regarding how to grow the Gateways Network. hat the Bay message gets to widest possible audience. As you are aware, this Department is working closely with the property owners of Werowiccomoco on Purtan Bay in York County, the College of William and Mary and the Virginia Council on Indians to Investigate ance fully what we think is the sent of Chief Powlatin and the Powlatin Confederacy. We recently behave the think is the sent of Hampton may be under consideration for base closing in the coming years. The program that is created under Option B should be able to provide resources that will assist sites of such importance and significance to develop and become members in full standing in the Ictoroph.

Through the office of Secretary of Natural Resources W. Tayloe Murphy, Ir., we have not with representatives of the Conservation Fund and the Chempeake Bay Foundation and have become acquainted with their proposal for a Chempeake Bay National Water Tail. We think that the content of a Chempoake Bay National Water Trail. strengthening Bay-wide conservation and recruational opportunities, and the virtue of establishing a persuanent MPS commitment to the Bay. In our judgment Option B is the option that is most compatible with what the Conservation Fund and Bay Foundation are of recognizing the whole Bey as a nationally alguificant resource, the potential of

is a holistic, partnership approach based on the success of the Gareways Network to date In our judgment Options C and D fail to capture the full range of Bay-related renowner, and thus fall short of what we believe would faitfill the raission of the NPS and the states and the success of other NPS partnership models. Our vision of an anianced Bay Gateways Network could embrace the creation of stew parts in Virginia and Maryland that would provide for the missing focus identified in either options C or D or both. Newly created parts, however developed and managed, could become designated. to present the algorificance and story of the Bay as it deserves to be told. What is no gateway sites, further enhancing the Gateway Network,

We hope these comments are helpful to the National Park Service as you move forward with your study. If you have any questions or need further information or clarification, please let me know.

WAY.

Kathleen S. Kilpatrick State Historic Preservation Officer Co: The Honorable W. Tayloe Murphy, Jr., Secretary of Natural Resources

The Victorian description of the County Tourism Washington County Tourism County



## THE WILDERNESS SOCIETY

# ADVOCATES FOR WILDERNESS

September 16, 2003

National Park Service 410 Sevem Avenue, Suite 109 Amapolia, MD 21403

Chesapealte Bay Study Tome:

The Wilderness Society (TWS) would like to take this opportunity to offer the following comments on the Draft Chestopesto Bay Special Resource Study and Environmental Impact Statement and sak that they be made a part of the official record for this study.

TWS would first Eise to commend the National Park Service (NPS) for conducting this study and documenting the extransive cultural, historical, and ecological resources present within the greater Chempeate Bay area. There is little question that the Bay, its abstraction, and other considerable greens are of national significance and denote appearance by the National significance and denote reportable more generally management by the National Park Service. With relatively little federal land evercardap and resource management in this was area of the Mid-Athanic region that dashes into the Bay, pretention of many of these important resources by the NPS makes sense. TWS, in agreement with many of our conservation colleagues, believes that the most appropriate role of the National Park Service in Chesapontas Bay region would fink be the removal of the sumer deet for the existing Garwarys Newvort, making a permanent commitment to the super Second, we think that there are compelling presented to consider creating a bytional Park tuth of algorithms are by combining various elements found in the Abstractives C, D, and B presented to this dash study.

TWS unferstands that you have modeled Alternatives C, D, and B in part after innovative cristing metional park units such as the Bicayne National Park, New Jersey Phaelands National Reserve, and the Timmuna Roalogic and Historic Preserve. While there existing models have achieved some level of success in the protection of lary resources, we would do well to take leaves from each of them and include some supports of all three models that are best suited to this situation for the final recommendation to Congress.

1615 M Score, NW, Workington, DC 20036 202-633-2300

The size of the Cherapeake watershed means it reaches across a broad army of coblegical aura. This ecological rethress and complexity is partnered with a was array of cultural and historical restources reflecting the prosperity this area has always afforded human inhabitums, from gretaisory brough the foracting of this commy sad on rith modern times. A proposal for a minimal park unit in this region should by design be broad enough in scope to encompeas a full army of these important and often upique and inter-related resources. The current alternatives eddwas the conservation needs of each set of resources integers of intertuines and authority complimentary features. Choosing one catagory of the presources to protect over another scens unwise as all these resources are so interwind and connected in today's world.

For example, Abernative C, an Estrary National Park, details the possibility of a water-based antional park in order to conserve the aquatic ecceptum of the Bay as a high quality resource of national importance. However, without better meansgement across much of the Bay's land bees and further conservation and restorations of important areas of the westerdard, a critical element that this conservation and restorations of important areas of the westerdard, a critical element that this conservation and element the goals for square consystem health in the Bay continue to show decline and the watershed-based causes of this are well understood.

While different in accopa, Alternative D, a working landscape reserve, also fails to address broad scale critical land conservation issues, Secusing on the maritime and rural berings of the Bay in only certain was which runsin rich is traditional calture. We agree that elements of cultural berings about the included in any Chestopske Bay National Park Service unk but they should not be the primary goal of future protection for this broad knotset. This fens, though important, fifters too much out.

Abrastive E, so exological and calcural preserve offices the best potential to protect the broadest erray of natural resources. The protection of one set of basedwater aross, riperate ances, and estuarine communities covers a broad spectrum of critical eccesystem excitation. Undergrandship this proposed abranctive would focus effects on one representative tributary, from headwaters to the Ray. Though using this tributary as a model for all other Bay tributaries, it seems to fall short of what must inevitably occur in the remainder of the watershed.

Although all three alternatives address the protection of important resources, they focus too actically on resource conservation of distipative emities, about with some overlap between alternatives. A realistic and smoosnful National Park Service unit here would combine many of these conservation tieses and produce a comprehensive model for Chemocole Bry conservation efforts.

The modul TWS would like to recommend would comprise separate landscapes strong together series the region within a single new Park Service unit. These individual parects would be of a variety of sizes and compositions but focused sevent cascarial large landscapes. These units should include a strategie set of lands interspersed throughout the Bay watershed, representative of its diverse ecology, unique history and working cultural landscapes. We also believe they should be strategically indeed to other existing

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conservation areas and/or lands that yet need to be preserved by other means, providing a critical ecological and cultural backbone to make sense of a full image of profected lands. The NPS preces, which might comprise this new unit, should be of strategic importance themselves, but they should also serve as the best models for importance conservation that might be adopted by other communities and adjusted properties. They should be conservation that might be adopted by other communities the breakful of the Bay wateribed to illustrate the intercommendents of all the mitmal and cultural appears of this wateribed. These pieces should become the give of a comprehensive conservation overlay on this wateribed, which is so sarely seeded.

For example, one critically important piece TWS fully supports as a part of this new NPS unit is encompeted in a proposal currently being championed by the Concervation Fund and the Cheapeake Bay Foundation to establish a Cheapeake National Water Insi. This "therway" will reture and celebrate the remarkable veyage of Cappain John Smith. In telling this increases and celebrate the remarkable veyage of Cappain John Smith. In telling this increases are catablishing the trail, it can serve se an important critalyst for proservation such establishing the trail, it can serve be a broad saray of resources that otherwise cannot be seen and experienced. It will do by isying out the train route the experience to each link with other water trails that are its tributable.

TWS realizes we are suggesting a unique model for the Park Service, but we believe this form of conservation innovation is necessary to effectively protect the resources and educate the public about our valuable Chemponic Bay. The NPS can provide leadership for the conservation and proper management of orthers bandwards and riparisa sories, demonstrate solutions to protect traditional uses and leads from uniqueded sprawl and development, and institute significant squaris consystem conservation efforts. Any proposal to Congress should also include increased public access in these disposed streat, as current scores is limited to only two percent of the estanded showline.

A National Park Service presence should enhance the public understanding of structured this and sustainability for the Chesquesto Bay and its vesterabed. We think this can best be encomplished through the establishment of linden defunctional interpretative into highlighting both what is the best of this handscape as well as innovative ways to make threats to these resources. They need to point a vivid picture of the vaterabed, eschary, and best communities functioning as a complex and connected system. A National Pert and hubbling these elements, when combined with the criticing Gateways Network, would serve as a model for other regions both inside and ounside the Bay by creating a transcrious imposts for additional conservation efforts.

This Special Resource Study is unique in ha discussion of conceptual alternatives but does so, with reason at this point, without addressing specific locations. Since the Study will not address there, we believe that the subsequent evaluation of specific geographical areas is necessary as the shape of a new Peick Service unit is delineated. Since encompassing significant ecological, historical, and recreational resources should be

actively evaluated as to how they could benefit from National Park Service management, ink other existing conservation areas and motivate the conservation of additional important leads by others.

The Chesquate Bay and its waterabed are bong overdue for the establishment of a significant National Park Service unit. The Cateways Merwork has been a wongerfully successful program to date and should be confincted on a parameter benie. However, it is our strong recommendation then NPS take the best from Abransives C, D and E and recommend a park unit that enormpasses a truly representative sample of this unique place and which will place the Nestonal Park Service in a bederating role for the conservation of the special resources found here. The Wilderness Society recommends that the Final Dank of the Chesqueste Bay Special Resource Shudy include a plan that combines elements of those elements of these elements and focuses on conserving measuraght examples of waterways, riperian masses, estimates and wildlife while also supporting the traditional working hardwaper that are a critical part of the Bay's waterabed.

Thank you for the opportunity to contribute our comments to the Chesqueie Bay Special Resource Study and Environmental Impact Statement.

Victory.

Frances A. Hung

Mid-Atlantic Regional Director

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### Appendix C: Suggested Places Based on Public and Agency Comments

During public review of the Draft Chesapeake Bay Special Resource Study and Environmental Impact Statement in summer 2003, a number of commenters suggested places that might fit with an alternative concept. The places suggested are listed below, grouped by the concept for which they were mentioned. Numbers in parentheses refer to the number of commenters listing that particular place. In almost all cases, the places mentioned were simply listed, rather than fully described as to how they might fit with a concept. None represented a formal proposal. For this reason, no analysis or assessment of these places has been conducted as part of this study.

### **ALTERNATIVE B**

- Annapolis Maritime Museum (McNasby's)--interpretive center
- Fort Monroe
- Lynnhaven River Watershed Bayside Nature Trail
- Water trails connecting Kiptopeke, Janes Island, Pocomoke, and Wye Island
- Werowocomoco
- York River Watershed

### ALTERNATIVE C

- Back Bay NWR or False Cape State Park Area
- Belle Haven
- Blackwater National Wildlife Refuge
- Bohemia Creek, Cecil County
- Browns Bay Area, Gloucester County;
- Cambridge and points west; Rock Hall; Sandy Point
- Crisfield, MD
- Eastern shore
- Goodwin Island
- Guinea
- Hampton
- Historic areas; open, undeveloped areas
- Horn Point, Oxford Lake—University of Maryland area in lower Dorchester
- Jamestown, St. Michaels
- Kent Island
- Leeds Creek, tributary to Miles River
- Mobjack Bay
- Monie Creek, near Princess Anne
- Nanticoke River
- Norfolk, Virginia Beach, Cape Henry
- Onancock
- Oyster rocks and saltwater wetlands

- Patuxent Wildlife Refuge, Kent Island, Point Lookout, Tributaries around Tidal fresh and salt water marshes and oyster reef ecosystems
- Round Bay
- Sandy Point
- Southern part of Delmarva peninsula,
- Southern Dorchester County
- Tangier Sound
- West/Rhode Rivers
- Western shore near Mayo
- Wye Island

### **ALTERNATIVE D**

- Annapolis
- Baltimore (2)
- Blackwater NWR
- Bucktown
- Cambridge (2)
- Cape Charles
- Cape Henry
- Church Creek
- Crisfield (3)
- Delmarva Peninsula
- Deal Island
- Dorchester County (5)
- Dragon Run
- Eastern Shore communities (13)
- Elliott's Island
- Eastern Neck Area
- Fishing Creek
- Grandview Beach
- Guinea
- Hart-Miller Island
- Havre de Grace (2)
- Hooper's Island,
- Jamestown
- Kent Island
- Lower and Upper Bay
- Lower Eastern Shore
- Lynnhaven River watershed (2)
- Mattaponi River
- Middle-Upper peninsula (2)
- Mobjack Bay
- Norfolk
- Northern Neck of Virginia
- Oxford
- Pokomoke
- Reedville, VA
- St. Mary's
- St. Michaels (7)
- Sandy Point (2)

- South Island
- Smith Island
- Southern Anne Arundel County
- Tangier Island (5)
- Taylor's Island (2)
- Tidewater VA and MD
- Tilghman Island (2)
- Villages along eastern and western shores of Virginia (3)
- Wye Island

### **ALTERNATIVE E**

- Cambridge
- Chesapeake Bay as a tributary to the ocean
- Chester River (2)
- Choptank River corridor (5)
- Corsica
- Dorchester County
- East Wye River
- · Eastern Shore of Maryland
- Gunpowder
- Mattaponi Watershed (2)
- Middle-upper peninsula of VA or MD (2)
- Miles River
- Nanticoke River corridor (4)
- Pamunky River
- Patapsco River
- Patuxent River
- Piankatauk
- Pocomoke
- Potomac River (3)
- Rappahannock (6)
- Rural Maryland
- Susquehanna River (3)
- York River (3)
- Wye

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### National Park Service U.S. Department of the Interior



Chesapeake Bay Special Resource Study

Chesapeake Bay Program Office 410 Severn Avenue, Suite 109 Annapolis MD 21403