A Handbook for Managers of Cultural Landscapes with Natural Resource Values

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I. INTRODUCTION

The last decade has witnessed an increasing interest in and recognition of cultural landscapes in the United States and worldwide, and there have been an impressive number of conservation successes. Various frameworks have been created to identify and categorize cultural landscapes, and progress is being made in developing tools and approaches for their management. The recognition of cultural landscapes is an exciting development and has focused attention on important historic, cultural, and archaeological resources. However, cultural landscapes present a number of management challenges: for example, their dynamic qualities, scale and transboundary issues, continuity of use, multiple ownership, and multiple jurisdictions. The primary focus of this handbook is on the interface of nature and culture in cultural landscapes. Since cultural landscapes result from the human interaction with the land, they encompass a range of natural and cultural values. The multidisciplinary aspect of cultural landscapes challenges our traditional approach to resource management, which has been discipline-oriented and has created a dichotomy between nature and culture. This dichotomy has proved to be a barrier to developing an integrated approach to landscape management.

In response to the need for a more holistic approach to cultural landscape management, the National Park Service Conservation Study Institute, together with QLF/Atlantic Center for the Environment, initiated this project to develop a handbook for managers of cultural landscapes with important natural resource values. The primary audience for this handbook includes superintendents, site managers, resource managers, and other professional staff. The purpose of the project is to share some of the innovative work being done by resource management professionals: comprehensive approaches that integrate multiple values in management. By creating a web-based document that can easily be expanded to include more case studies and additional suggestions of tools, approaches, and lessons learned, we hope that this website handbook will provide a forum for managers to share their experiences. We believe this shared experience will lead to a more successful integration of values in cultural landscape management. To share further case studies, offer suggestions for tools and approaches, or advice from experience, please contact us at:

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The “Findings” section of this report presents tools and approaches developed at sites where some level of integration has been achieved. Also included is advice from resource managers gained from years of experience and deemed useful to pass on to others in similar professional positions. This information was identified through the analysis of all of the interviews conducted by researchers, which are listed in Appendix E. Many of the tools and approaches and much of the advice emphasize the importance of gathering and utilizing information from a number of disciplines for decisionmaking. The information
can be gathered by documentation, e.g., cultural landscape reports and historic character studies, or by outside expertise, e.g., charrettes and expert panels. A second focus is on getting site staff to work together more effectively through various communication strategies. Approaches include a team-based project review process and integrated staff work-days. Other tools, approaches, and advice gathered from interviews include ways to improve the planning process and to work with professionals and the public outside of a site.

The research for this handbook also included a literature review. The result of that review is the bibliography.

II. OVERVIEW OF CULTURAL LANDSCAPE PRESERVATION

The focus of this handbook is on understanding the values of both cultural and natural resources in cultural landscapes and finding ways to successfully integrate this understanding into management. Although many tools and guidelines for managing cultural landscapes now exist, effective integration of natural resources into management planning for cultural landscapes remains a challenge.

Because the recognition of cultural landscapes is relatively recent in the United States, this resource is not yet widely understood beyond the circle of professional resource managers. In contrast, the terms “natural resource” and “ecology” became household words at in the 1970s. “Natural landscapes” are usually defined as areas that have not been actively managed or developed. These lands have ecological systems that provide habitat for wildlife, retain biodiversity, purify air and water, and provide a place for recreation. In recent years, a better understanding has developed of the sustained periodic or long-term human occupation of many “natural landscapes,” since many have a history of land use that has significantly influenced the current ecosystem.

“Cultural landscape” is a much less familiar term encompassing a diversity of places, many with significant land use history or other cultural values. Cultural landscapes include battlefields such as Gettysburg and Antietam; the homes and designed estate grounds of dignitaries, inventors, and writers; the sites held sacred by native peoples from prehistoric times to the present; and the valleys where our ancestors settled and farmed. Many cultural landscapes have maintained a continuity of land use into the present.

Many types of cultural landscapes ranging from important historic gardens of less than an acre to rural vernacular historic districts of several thousand acres have been conserved. One important development in the past decade has been the conservation of many ethnographic landscapes and places of identity for aboriginal communities, illustrating that multiculturalism and diversity have gained recognition in the heritage preservation movement. Recently, a number of local initiatives have resulted in designation of heritage
areas by the U.S. Congress; this has focused attention on larger-scale landscapes where an array of cultural and natural values shape regional character and identity.

A. THE EVOLUTION OF CULTURAL LANDSCAPE PRESERVATION IN THE UNITED STATES

Recognition of cultural landscapes as an important part of our national heritage is rooted in the history of historic preservation. In the United States, there are three pieces of national legislation with associated policies that form the legal and governmental framework for historic preservation: the Antiquities Act of 1906, the Historic Sites Act of 1935, and the National Historic Preservation Act of 1966, last amended in 2000. These laws address the preservation of cultural resources for the benefit of present and future generations. The National Park Service (NPS), in cooperation with state historic preservation offices and certified local governments, administers the inventory, evaluation, and listing of significant historic properties in the U.S. through two historic preservation programs resulting from these laws: the National Historic Landmarks Program and the National Register of Historic Places.

While recognition of historic value initially focused primarily on architecture, this focus has broadened in recent years to include landscapes as cultural resources. Although the National Park Service has recognized the significance of landscape characteristics and features in parks since the 1930s, there were no formal policies, guidelines, or standards for preserving and managing cultural landscapes until relatively recently.

In the 1980s, the NPS began revising policies and guidelines for managing cultural landscapes included in the national park system. In 1984, Robert Z. Melnick published Cultural Landscapes: Rural Historic Districts in the National Park System, in which he noted that it was important to address the “larger landscape” as distinct from structures: it “often encompasses such elements as landform, plant materials, and location of structures.” Melnick suggested that it was first important to identify those landscapes and then develop methods for their evaluation. In 1985, Ian Firth published Biotic Cultural Resources: Management Considerations for Historic Districts in the National Park System, Southeast Region, in which he began to grapple with the relationship between natural resources and cultural landscapes, and the management of what he termed “biotic cultural resources”—plant and animal communities associated with human settlement and land use. In 1988, landscapes were formally identified as a type of cultural resource in NPS Management Policies, and with this, a policy was established to recognize and protect landscapes with significant historic, design, archaeological, and ethnographic values. This policy also recognized the importance of
considering both built and natural features, and the dynamics inherent in natural processes and continued use.¹

In 1994, the National Park Service expanded the Cultural Resource Management Guidelines, NPS-28 to include procedural guidance for managing cultural landscapes within the national park system. Also in the mid-1990s, the National Park Service developed two tools for research, planning, and stewardship activities for cultural landscapes. The cultural landscapes inventory (CLI) is a database that provides baseline information on the location, historic development, landscape characteristics and associated features, and management of cultural landscapes. The cultural landscape report (CLR) is the guide for management (frequently termed “treatment” in historic preservation reports) and use of the landscape. In 1999, the National Park Service published a manual for writing cultural landscape reports.²

Concurrently, in order to support the recognition of cultural resources, the National Register began to issue bulletins describing how to nominate them. Beginning in 1987, there have been a number of National Register bulletins that provide advice on how to nominate various cultural landscapes:

- designed landscapes (Bulletin #18),
- rural vernacular landscapes (Bulletin #30),
- battlefields (Bulletin #40),
- cemeteries (Bulletin #41), and
- historic mining properties (Bulletin #42).

In addition, in 1994, the NPS prepared Preservation Brief #36, Protecting Cultural Landscapes: Planning, Treatment, and Management of Historic Landscapes, which provides a good overview. In the 1980s, The Secretary of the Interior’s Standards for the Treatment of Historic Properties was broadened to include landscapes, and, in 1996, the accompanying Guidelines for the Treatment of Cultural Landscapes was published to provide advice on preservation. These NPS publications have inspired a number of landscape inventory efforts by state historic preservation programs and, most recently, by NPS itself. (See Bibliography and Appendix D for listing of relevant National Register Bulletins and other NPS publications.)

**B. INTERNATIONAL RECOGNITION OF CULTURAL LANDSCAPE PRESERVATION**


² Ibid, 8-9.
Many countries around the world also recognize the diversity and value of cultural landscapes. Starting in 1984, the UNESCO (United Nations Educational, Scientific, and Cultural Organization) World Heritage Committee (formed under the auspices of the World Heritage Convention, an international treaty) struggled with the issue of cultural landscapes for almost a decade. Two issues inhibited consensus on the values that identify cultural landscapes: the equation of cultural landscapes with rural landscapes, and the requirement for a harmonious balance between nature and human activities in cultural landscapes. Finally, in 1992, new guidelines were adopted to specifically address the question of cultural landscapes. As of February 2002, there were 23 cultural landscapes on UNESCO’s World Heritage List. These sites are diverse and reflect a variety of reasons for inclusion, such as the specific technique of land use in the rice terraces of the Philippine Cordilleras or the spiritual beliefs of the people who live in Uluru-Kata Tjuta National Park in Australia. UNESCO is currently preparing management guidelines for World Heritage cultural landscapes.³

Cultural landscapes share much common ground with protected landscapes, Category V in IUCN-The World Conservation Union’s protected area management categories. Both are focused on landscapes where human relationships with the natural environment over time define their essential character. But, while the emphases in cultural landscapes have been on human history, continuity of cultural traditions, and social values and aspirations, the primary emphases in protected landscapes have been the natural environment, biodiversity conservation, and ecosystem integrity.

C. DEFINITION OF “CULTURAL LANDSCAPE”

As would be expected from this widespread recognition and interest, there are a number of definitions for “cultural landscape” in use by different agencies and organizations in different parts of the world. The definition currently used by the U.S. National Park Service is:

a geographic area, including both cultural and natural resources and the wildlife or domestic animals therein, associated with a historic event, activity, or person or exhibiting other cultural or aesthetic values. (Cultural Resource Management Guidelines, NPS-28)

The National Park Service recognizes four descriptive types of cultural landscapes that are not mutually exclusive and are relevant to properties nationwide in both public and private ownership. These four types are historic sites, historic designed landscapes, historic vernacular landscapes, and ethnographic landscapes. (See definitions in Appendix B.)

The definition for cultural landscapes used by the National Park Service is of particular interest in this handbook since both natural and cultural resources are recognized as important and integral to the concept of a cultural landscape. It is this multidisciplinary aspect of cultural landscapes that creates current management challenges. These challenges arise from our traditional, rather discipline-oriented, approach to resource management, which has created a dichotomy between nature and culture. This dichotomy has proven to be a barrier to developing an integrated approach to landscape management because the resources most valued in certain disciplines may not be fully understood or appreciated by others. Cultural landscapes, rooted in the interaction of human activity with the natural environment, are the middle ground where the two traditions come together. A major challenge in some vernacular and ethnographic cultural landscapes is that there often are living populations who inhabit the land and have contemporary needs and ambitions. The scale of many cultural landscapes, which may stretch over thousands of acres, presents another challenge. The diversity of the resources—typically diverse cultural resources as well as diverse natural resources—must also be understood and managed. It is now clear that managing cultural landscapes relies on a holistic approach—one that encompasses all significant aspects of a historic property—as these are integrated places of natural, cultural, scenic, and sometimes recreational values that have evolved and been layered over time.

The landscape types recognized by the U.S. National Park Service are comparable, to a high degree, to the categories of cultural landscapes defined in the Operational Guidelines of UNESCO’s World Heritage Convention. (See Appendix C for World Heritage Convention definitions of cultural landscapes.)

III. METHODOLOGY FOR THIS PROJECT

The NPS Conservation Study Institute and QLF/Atlantic Center for the Environment received a grant from the National Center for Preservation Training and Technology to locate and examine case studies illustrating the integrated management of cultural, natural, and scenic resources in cultural landscapes. These successful examples draw on the literature, methodologies, technologies, and practices of both natural and cultural resources to achieve an integrated approach to management of cultural landscapes.

Through identification and evaluation of existing multidisciplinary cultural landscape programs, this research project identified a variety of strategies that foster the integration of natural resource management with historic and cultural resources in cultural landscapes. The project analyzed examples of cultural landscape preservation that illustrate best practices for managing cultural and natural resources in an integrated program. Research for this project followed two pathways: a literature search that resulted in a bibliography, and a series of interviews with resource professionals that led to the analysis of case studies and a summary of the lessons learned. These two sources...
of information were synthesized to develop this handbook of tools and approaches for cultural landscape management.

A. LITERATURE REVIEW

The research included a review of literature in cultural landscape management and related fields, as well as in natural resource management, in order to identify best principles and practices in examples of integrated management. This literature review appears in the bibliography for this report.

B. THE CASE STUDY APPROACH

In order to identify successful examples of cultural landscape management that illustrate the integration of natural, cultural, and scenic resources, the project team evaluated a series of case studies. A preliminary list of sites for interviews was chosen based on several criteria. Researchers looked for a broad geographic distribution; variety in both scale and type of landscape (historic, designed, vernacular, and ethnographic); recently designated sites as well as older, long-established sites; and sites managed in partnership. In all but one case, researchers interviewed more than one staff person at each site in order to gain a broader perspective. This series of case studies was drawn primarily from the U.S. national park system. In compiling a list of potential case study sites, researchers considered suggestions made by cultural resource specialists in National Park Service regional offices for locations where resource managers were faced with interesting challenges and were responding with creative solutions. Researchers also drew potential sites from a network of conservation professionals and organizations contacted during a collaborative project that resulted in the preparation of The Landscape of Conservation Stewardship, thus leveraging an existing investment that has been identifying case studies on conservation stewardship. Finally, a search for potential privately managed sites was conducted through the world wide web.

IV. FINDINGS

The following is a summary of case studies and information gleaned from a series of interviews. (See Appendix E for a list of interviewees and sites.) The findings reflect observable patterns in what resource managers, planners, and other staff said about issues in their current working environment. Also included are thoughts or advice that interviewees wished to pass along to others in similar professional positions, as well as a synthesis of some of the lessons learned.

A. AN OVERVIEW OF THE CASE STUDIES

While the **Blue Ridge Parkway** encompasses a narrow corridor of land owned by the federal government and managed by the National Park Service, the majority of the scenic viewsheds that are integral to the park’s significance are on privately owned land under the planning jurisdiction of local communities and 29 counties. For many of these counties, land use planning and growth management are just beginning to emerge; in the interim, there is very little in the way of viewshed protection. Park resource managers and planners have developed a program to engage the public, local stakeholders, and county and municipal governments to analyze and help protect the key viewsheds.

**Delaware Water Gap National Recreation Area** is a test case for developing a cultural landscape inventory on a large scale. GIS mapping has proven useful as a tool to identify changes in features and patterns of the cultural landscape over time. The park has established an agricultural leasing program to address the loss of open fields, as well as a committee to assess the compliance requirements of various park activities, allow for input from park staff, and ensure that all resource issues are addressed.

**Gettysburg National Military Park** used innovative approaches in developing the park’s updated general management plan (GMP). An analysis of the character-defining features of the Gettysburg battlefield landscape was incorporated into the new GMP and directed resource managers toward the best approach for protecting the cultural landscape. The analysis process also provided a useful tool to illustrate various management options during public comment sessions for the GMP.

**Lyndon B. Johnson National Historical Park** is a site where a portion of the cultural landscape, a historic pecan orchard, is managed as a cultural resource that remains economically productive. The park staff has worked to develop a management plan for the orchard that respects its cultural and natural resource values, while continuing to produce a saleable crop of pecans each year. Orchard management includes an integrated pest management (IPM) program and a water quality monitoring regime.

At **Marsh-Billings-Rockefeller National Historical Park** (MBRNHP) the Mount Tom Forest is one of the earliest examples of planned and managed reforestation in the United States. The Forest illustrates more than a century of stewardship, from the earliest scientific silvicultural practices borrowed from nineteenth-century Europe to contemporary practices of sustainable forest management. When the Mount Tom Forest was gifted to create MBRNHP, the National Park Service made a commitment to continue the tradition of careful, sustainable forest management practiced by the Billings and Rockefeller families. In 2002, the park, including its forest, was the pilot for a new documentation tool, the Historic American Landscape Survey. MBRNHP is currently developing a Forest Management Plan with a long-term vision for the future of the Mount Tom Forest. The Plan will guide forest practices, historic preservation,
natural resource protection, recreation, education and interpretation. A cultural landscape report and other documentation tools will inform the forest management plan. Working with several universities, consulting foresters, NPS Conservation Study Institute and the NPS Olmsted Center for Landscape Preservation, the National Park Service is bringing the perspectives of many diverse disciplines to the planning process.

At the Presidio of San Francisco, a unit of Golden Gate National Recreation Area, resource managers are also developing a vegetation management plan that includes a historic forest. In this case, the National Park Service is developing the plan cooperatively with the Presidio Trust, an independent federal agency. Because the Presidio is located at the edge of a densely populated urban area, public involvement is particularly important. A historic character study currently underway will be combined with knowledge of natural resources to inform management decisions.

The Presidio’s small, 145-acre Crissy Field is included as a separate case study because of the complexity of developing the site’s design plan. The focus of this case study is on the negotiation process used to bring together a broad array of interests to integrate historic preservation and ecological conservation.

Tallgrass Prairie National Preserve was established by legislation on land in private ownership with management responsibilities shared by a private organization, the National Park Trust, and a federal agency, the National Park Service. The National Park Service realized that the success of the park would depend on building a strong relationship with local communities, and that input from local people and organizations would be important in developing the park’s general management plan. The process used to develop the plan integrated research and expertise from outside experts and incorporated input from an advisory committee and local communities.

B. GATHERING AND UTILIZING INFORMATION

Adequate knowledge of the cultural landscape is critical to information-based decisionmaking. Required knowledge includes identification and understanding of the natural resources, cultural forces, and historic evolution that have shaped the landscape existing today, including the cultural resources that represent land forms, land uses, and human activities over time. A multidisciplinary approach is essential to addressing the diverse and complex aspects of cultural landscapes. The first step may be to develop a framework for gathering and evaluating information on resources. The second may be to develop a process for analyzing the significance of the cultural landscape and its resources in order to inform management decisions. The tools and approaches for gathering information can be divided into those used for documentation-driven decisionmaking and for counsel-driven decisionmaking.

1. TOOLS AND APPROACHES

   a. Documentation
i. Cultural Landscapes Inventory
The cultural landscapes inventory (CLI), developed by the National Park Service, identifies the cultural landscapes at a site and provides information on their location, historic development, landscape characteristics and associated features, and management. It is useful if baseline information provided in the CLI is available at the time a cultural landscape report (see description below) is undertaken. The CLI was implemented throughout the National Park Service in 1997, but inventories were initially carried out on relatively small-scale sites. Delaware Water Gap National Recreation Area is a test case for creating a CLI on a large (nearly 70,000-acre), parkwide scale. (See Delaware Water Gap National Recreation Area case study.)

ii. Cultural Landscape Report
The cultural landscape report (CLR) is used by the National Park Service as the principal management (treatment) document for cultural landscapes. The CLR summarizes a site’s history, documents existing conditions, and evaluates the landscape’s historic significance. A CLR guides management decisions for a landscape’s physical attributes, biotic systems, and uses based on an understanding of historic significance. The *Guide to Cultural Landscape Reports: Contents, Process, and Techniques* was published by the National Park Service in 1998, providing procedural and practical information related to preparing a CLR.

iii. Historic Character Study
A historic character study evaluates the “characteristics and features that define and illustrate the significance of the landscape” (*Guide to Cultural Landscape Reports: Contents, Process, and Techniques*). Mapping of these features provides a tangible illustration of cultural values, and, if mapped at the same scale as natural resources, allows for multidisciplinary discussions and the identification of opportunities for protection of a mix of values. This tool is particularly valuable for sites more than several hundred acres containing large areas of natural systems. (See Presidio Forest case study.)

iv. Geographic Information System Database
Geographic information system (GIS) mapping can be used to see how character-defining features of the landscape have changed over time. Historic aerial photographs can be scanned and known points such as road intersections identified. The first layer created from the old photographs can then be overlaid on a second layer created from the current image, within the same view and in the same coordinate system, to identify changes in features such as field patterns, forests, and structures. (See Delaware Water Gap National Recreation Area case study.) Another use of GIS is to map resources and compare overlays of natural and cultural resources. The natural resources might include soils, wetlands, vegetation types, and wildlife habitats. Cultural resources might include historic structures, archaeological sites (both prehistoric and historic), and Native American burial sites. Color-coding
can be used to allow resources of highest priority for protection to stand out. By analyzing the GIS maps, the resource management staff is able to identify areas where natural and cultural resources might be managed in concert, and where there are potential conflicts that will need to be resolved.

v. Historic American Landscapes Survey
The Historic American Landscapes Survey (HALS) program was established by the National Park Service in October 2000 as a sister program to the Historic American Buildings Survey (HABS) and the Historic American Engineering Record (HAER). HALS is intended to document significant historic landscapes throughout the United States with narrative history, drawings, and photographs. Guided by HALS professionals, teams of students in landscape architecture, architecture, planning, horticulture, and related disciplines, as well as interested professionals, conduct fieldwork for HALS through short-term projects. The teams record significant historic landscapes nationwide through measured and interpretive drawings, large-format photography, written narratives, and other documentation techniques. HALS encourages partnerships with private, governmental, and educational institutions to develop landscape documentation and encourage landscape preservation. Marsh-Billings-Rockefeller National Historical Park served as a pilot site for the HALS program in 2002.

b. Outside Expertise

i. Charrettes
A charrette, a form of organized brainstorming, is a workshop with a physical design component. It brings together experts from various disciplines, allowing them to consider important issues together over a short period of time. In general, a charrette is most useful to generate ideas for a more in-depth planning process. (See Marsh-Billings-Rockefeller National Historical Park case study.)

ii. Expert Panels
Many sites have used an expert panel composed of a multidisciplinary team to gather advice and define the scope or data requirements for developing management plans. Panel members can share information and perspectives gleaned from years of experience or research at a variety of sites. The use of an expert panel can reduce the time and cost necessary for gathering this information. Panel members can also identify gaps in knowledge and help determine how these gaps might be addressed. In order to reduce the amount of time consumed by this process, the panel can be charged with specific tasks or questions. (See Tallgrass Prairie National Park case study.)

2. ADVICE FROM INTERVIEWEES

a. Integration Across Disciplines
Many sites are beginning to look for input from many divisions within the park as well as outside experts as a means to make certain that all perspectives are represented in discussions and considered in planning and management actions or decisions. This approach allows resource managers to gather a greater amount of data and expertise. It is important that when using this multidisciplinary approach gathered from many sources, that the resource management staff ensure that the information is integrated.

b. Ensuring Adequate Information

Because cultural landscape documentation methodologies are relatively new, this information may lag behind that for natural resources. Several cultural resource specialists within the National Park Service felt this disparity was a serious concern and a barrier to cross disciplinary integration. As a result, they believe it is critical that there be commitment to gathering cultural landscape documentation in parallel with natural resource information.

c. The Importance of On-going Documentation

On-going documentation is an important role for resource managers and maintenance staff so that any changes made at a site are recorded and may, if necessary, be reversed at some point in the future. It was suggested that this is most often recognized by the maintenance staff who deal with historic structures, but that those who manage natural or cultural landscapes may not view documentation as a priority. Interviewees noted that it is important at every site to develop a procedure for documentation of changes made to all resources, and to make sure that all staff members understand the procedure and follow it for every project.

C. COMMUNICATION: GETTING STAFF TO WORK TOGETHER

Sites that contain cultural landscapes with both natural and cultural values require a decisionmaking process that is viewed as fair and reasonable by all parties. This process can include various professionals such as historians, archaeologists, wildlife biologists, foresters, hydrologists, ethnologists, landscape architects, architects, engineers, interpreters, and maintenance staff. The process should include steps that establish and maintain communication between managers within different divisions at the site. One important role of the site manager is to create a team from an often diverse group of people. Even if staff in different divisions do not get along or work well together, it is the manager’s job to make sure the staff is communicating about all key management issues. The process may also involve bringing together representatives of different disciplines through special committees or work teams.

1. TOOLS AND APPROACHES

   a. Project Review Process Using a Team Approach
Management of the complex and diverse natural, cultural, scenic, and other values of cultural landscapes requires consistent information flow, active communication in planning, and participation in decisionmaking among multiple staff members, often from different disciplines. One common observation by both natural and cultural resource managers interviewed was that they were frequently unaware of projects until the actual work was begun. Because of this, they were not able to be involved in the decisionmaking process while their input might still affect the outcome. Their sites had no comprehensive list of proposed or funded projects, or there was no mechanism in place for their involvement in the planning or priority-setting process.

The Blue Ridge Parkway’s Resource Planning and Professional Services Division has developed a project review process that minimizes conflicts between cultural resource and natural resource managers. Previously, anyone proposing a project at the park would carry out the planning and design phase on their own, then send out the plan for others to review. At that late stage in the process, reviewers might be reluctant to ask for any major changes. As part of the pre-implementation phase of the new process, all players who will have an interest in a proposed project review that project in the field before any design work begins. This generally happens in the spring for all projects proposed for that year. The group first identifies all the natural and cultural resources that will be affected, then designs solutions that consider all natural, cultural, and scenic resource concerns. This is the point where negotiation takes place on planning and management issues. The team stays together throughout the course of the project, with the Resource Planning and Professional Services Division acting as the coordinator. Park planning and resource management staff believe this new process works well and effectively integrates natural and cultural resource concerns.

b. Compliance Committee

This is an interdisciplinary team that meets at regularly scheduled intervals to assess the compliance requirements of various site activities. At Delaware Water Gap National Recreation Area, the compliance committee meets once a month and includes a representative from the superintendent’s office, three division chiefs, and professional staff at various levels from all the major disciplines. The committee chair is responsible for making sure that all important resource-related issues are addressed. Although these meetings are not always easy, they provide an opportunity for all of the various participants’ concerns to be “laid out on the table.”

At Delaware Water Gap National Recreation Area, the compliance committee has yielded several valuable benefits that further the park’s goals for resource management and environmental leadership:
• The existence of the committee has raised awareness throughout park staff that planning and compliance reviews should be considered for a variety of park activities, not just major development projects.

• Having a recognized committee that meets regularly provides a structured process for development of standard operating procedures for compliance reviews. The information is then available to any staff member responsible for coordinating or managing a park activity. This structure has eliminated the need for staff members to determine on their own who needs to be contacted and make those contacts individually.

• Regular meetings of interdisciplinary or interdivisional groups of coworkers create a real sense of teamwork that is invaluable when discussing problems and finding solutions to challenging compliance issues.

• Regular compliance meetings make more efficient use of staff time, because up to eight different projects can be reviewed at one meeting. Formerly, each project would have required an individual meeting, meaning that the same staff members would have had to attend up to eight different meetings to accomplish what is now done in a single session.

c. Natural/Cultural Resource Management Staff Integrated Work-Days

One cultural resource manager arranges staff work-days with both natural and cultural resource staff members working side-by-side on a project requiring physical labor. Chosen work sites have both natural and cultural resource components. Working together tends to break down barriers and promotes a better working relationship back in the office. Volunteers from the local community often participate as well.

d. Organizational Structure

Although there may be many ways to achieve an integration of interests in management at a site, several interviewees indicated that one method they felt worked well was to place all staff responsible for cultural and natural resource management within the same division. This allows for daily interaction and increases the likelihood that everyone will have at least some information on various projects before any work actually begins, and will know enough about the projects to know when they should be involved at some level. Several interviewees suggested that integrating natural and cultural resource staff within the same division forces staff to work together at an overall management level, rather than an individual project level.

Placing all resource management staff within the same division also allows for value-laden philosophical discussions to take place over an extended period of time in a relaxed, nonconfrontational atmosphere, rather than during project management
negotiations when tensions can be high. It allows for an exchange of ideas and an educational process so that everyone reaches at least a basic understanding of and appreciation for the importance of all the resources at a site.

Another reason suggested for creating a combined division is that the cultural and natural resource staff members then feel they are at an equal level when trying to achieve integration during the decisionmaking process. By placing all staff within one division under a single division chief, the chief ultimately becomes responsible for integration. If that individual does his or her job well, the atmosphere within the division promotes discussion and learning from one another across disciplines. Staff members need to feel the freedom to express their opinions openly without the fear of criticism or censure, and should understand the importance of listening to and considering the concerns of others. Staff members also need to appreciate their responsibility for airing their concerns openly. Frank debate among all the staff allows them to work together as a team to resolve issues.

2. ADVICE FROM INTERVIEWEES

a. The Importance of Leadership

Several interviewees expressed the importance of supervisors creating a “safe” environment for resource management staff, in which all members feel comfortable in expressing views openly and honestly without fear of recrimination. Staff members also understand the importance of listening to and considering the concerns of others. Staff meetings should be seen as the time to get concerns “out on the table.” In order to create this atmosphere, supervisors need to develop leadership skills.

D. THE MANAGEMENT PLANNING PROCESS

It is important that sites develop a comprehensive approach to planning rather than using an ad hoc approach for each individual project. In this way, planners and managers are better able to see the “big picture” and the interrelationships among projects. When evaluation is built into the planning process, the process becomes a learning experience.

1. TOOLS AND APPROACHES

a. Sitewide Work Plans

It was suggested that parks and other protected areas would do well to set priorities for projects sitewide, through a sitewide work plan. This prevents individuals from pursuing project funding and then having to return that funding if other managers determine the project is not a priority, or if the project conflicts with plans or priorities of other divisions.
b. Post-project Evaluation

After a project has been completed, it is important to step back and look at what worked well and what did not. Time for reflection can be built into the system, becoming a routine part of the process, so that it is no longer possible to immediately go on to the next project without learning something from the last.

In order to evaluate the success of a project, measurable goals and outcomes must be determined in advance. For example, 20 years ago, professionals involved in fire management believed that success was achieved when the fuel load was reduced. Today managers introduce fire as a natural component and are looking for success based on clearly-defined ecological indicators.

2. Advice from Interviewees

a. Involve Resource Management Staff in the Planning Process

One interviewee recommended that both cultural and natural resource management be integral, active components of all site planning, and that cultural and natural resource management staff be included “at the table” from the very beginning. It was suggested that resource management staff might be excluded from the site planning process because they are seen as obstacles, pushing to protect everything without compromise. It was also suggested that both cultural and natural resource managers take a more holistic view, realizing that they cannot protect “every blade of grass” and that, at times, there will need to be compromise.

While it may be more enjoyable for resource managers to spend time in the field conducting inventories and collecting data, they should also recognize the importance of using that data to promote protection, which requires time away from the field in planning and negotiation.

b. Be Realistic about Resource Limitations

When resource managers evaluate management options, they need to be realistic about limitations in staffing and funding. For example, the decision to replant a historic orchard will require initial funding, then continued funding and staffing for maintenance for years to come. It may also mean the use of chemical fertilizers and pesticides—even if an integrated pest management (IPM) program is adopted—and the continued monitoring of water quality. This should be viewed as a long-term decision that has a basis in the site’s management planning documents and is not the whim of the current site director.

c. Take Your Time
As a resource manager, it often is not important how quickly goals are achieved but that they are achieved eventually. If we assume that parks and other protected areas exist in perpetuity, managers must accept that it may take a long time to reach a desired end, and that they may not witness that end personally. As long as managers do all that they can to maintain the resources in their care, they should gather all the information possible to make good decisions and not be rushed.

**E. WORKING WITH OTHERS OUTSIDE THE SITE**

Many case studies illustrate that parks and protected areas no longer work in isolation. Consequently, it can be useful for resource managers to be aware of the views and values of site visitors and surrounding communities, and to recognize that the interests of stakeholders in the public are not homogeneous. It may be important to bring members of the public into the decisionmaking process so that they can contribute their knowledge and also understand the reasons that shape decisions. This can help to build a constituency more willing to support resource protection. In some areas, local opposition to federal ownership can mean that a federal-private or federal-state partnership is the only way to manage a site and that a management program needs to be based on a complex of interests and long-term vision of the future.

Education is important in that it creates good stewards and a constituency for protection of natural, cultural, and scenic resources. If there is a collaborative method to directly involve the public, people gain a greater appreciation for a site, its mission, and its resources. (See Blue Ridge Parkway case study for more information on the view area scenic quality assessment process.)

Cultural landscapes involve not only resource protection but protection of all the values of the place, often including intangible values based on meanings and associations. As an example, it is important to work with indigenous people to understand their traditional knowledge of the places they hold sacred, which are often natural rather than built resources.

1. **TOOLS AND APPROACHES**

   a. **Advisory Committee**

   The use of an advisory committee with representation from a site’s surrounding community, including local government entities and special interests, has proven to be an effective means of building local support. In the case of Tallgrass Prairie National Preserve, an advisory committee was created legislatively when the preserve was established, and was involved in developing the preserve’s general management plan.

2. **ADVICE FROM INTERVIEWEES**
a. Respect the Public at Public Meetings

It was suggested that, during public hearings, those conducting the meetings should be respectful of people’s time. Avoiding revisiting issues that have been addressed at previous public meetings is one way to do this. Otherwise, those conducting the meetings may be viewed as indecisive or as wasting citizens’ time.

b. Respect Your Neighbor’s Management Style

If there are differences in the management styles of the staff at a site and the neighboring property owners, it is important to respect the neighbors’ management styles and decisions. Often there is more common ground than there are differences, so try to focus on the common areas.

F. NEEDS ASSESSMENT

When asked for information that is needed, for changes that should be made, or for ideas for future programs, interviewees came up with the following suggestions.

1. General

a. Additional Professional Development

For staff members who work at the ground level, it is helpful to have tools that can be used in making day-to-day decisions. One suggestion was to create hands-on workshops for park staff on various aspects of cultural landscape management. The workshops could be designed so that participants work in teams including natural and cultural resource managers and maintenance and interpretative staff, and would work together resolving issues at their own site or on case studies from other locations.

2. Specific to the U.S. National Park Service

a. Additional Professional Staff

Hire additional professionals such as historic landscape architects to work for groups of parks (a cluster) on specific projects for two or three weeks at a time.

b. Share Examples of Cultural Landscape Reports

Make high-quality examples of cultural landscape reports available to other sites.

c. Flexible Mechanism and Information on Partnerships

Create accessible information and examples of cooperative agreements and other partnership tools. This is especially important for smaller parks with small staffs and...
therefore limited expertise. Parks should have access to model agreements for working with other federal agencies and local nonprofit organizations on collaborative projects.
BIBLIOGRAPHY

REFERENCE WORKS AND BIBLIOGRAPHIES


CULTURAL LANDSCAPES THEORY AND PHILOSOPHY


**Natural Resources Theory and Philosophy**


**CULTURAL AND NATURAL RESOURCE MANAGEMENT**


**ENVIRONMENT AUSTRALIA**


**COUNCIL OF EUROPE/EUROPEAN COMMISSION**


U.S. NATIONAL PARK SERVICE


**PARKS CANADA**


**UNESCO**


**IUCN—The World Conservation Union**  
*(Includes World Commission on Protected Areas)*


Task Force on Economic Benefits of Protected Areas of the World Commission on Protected Areas of IUCN, in collaboration with the Economics Service Unit of IUCN. *Economic Values of Protected Areas: Guidelines for Protected Area Managers.* Best Practice Protected Area Guidelines Series no. 2. Gland, Switzerland and Cambridge, UK: IUCN—The World Conservation Union, World Commission on Protected Areas, 1998.

Task Force on Financing Protected Areas of the World Commission on Protected Areas of IUCN. *Financing Protected Areas: Guidelines for Protected Area Managers.* Best Practice Protected Area Guidelines Series no. 5. Gland, Switzerland and Cambridge, UK: IUCN—The World Conservation Union, World Commission on Protected Areas, 2000.

**Specific Site Studies**


APPENDIX A

INTERVIEW GUIDE

In the first phase of this project, 29 interviews were conducted with professionals working at 12 different sites, and eight case studies chosen to present in this document. Before conducting the interview, researchers obtained relevant management and planning documents from the site, and interviewees were sent a set of questions to consider. The tools, approaches, and lessons learned that are described in this document were derived from all of the interviews, regardless of whether or not the interview site was selected for a case study.

Interview Questions:

1. Please describe your site’s mission/goals.

2. What is the role of the cultural landscape within this mission?

3. Site description. What are the key cultural and natural landscape features?

4. Do you have a landscape management plan(s) in place? What are the goals of the plan(s)?

5. What were the underlying motivations and circumstances leading to the management program, its accomplishments, and long-term vision?

6. What disciplines/types of personnel/areas of expertise are involved in the landscape management program(s)?

7. How are cultural and natural landscape management needs balanced or integrated?

8. What are the two or three most important issues you face as a manager trying to integrate concerns about natural resources into cultural landscape management?

9. How are management decisions made at your site? How do you identify your options/choices and then weigh these options? Do you bring other organizations or individuals into the decisionmaking process?

10. Have you ever run into controversy at your site trying to balance the management of cultural and natural resources? How have you dealt with the conflict(s)?

11. When carrying out research, planning, or stewardship activities at your site (e.g., inventories, monitoring), have you been able to integrate cultural and natural resource disciplines during the various phases of your work? Why or why not? Which phases?
12. Have you developed/adopted/adapted any management principles or formal procedures specifically for your site or from other sources?

13. Description of management budget, funding mixes, and in-kind/matching funds. How are funds distributed for managing natural and cultural resources?

14. How do you measure progress or evaluate success of management program(s)?

15. Discuss any major impediments to success, including support that would have been helpful but hasn’t been available.

16. What lessons have you learned?

17. How do you network with other managers doing similar work/facing similar challenges (e.g., professional societies, journals)?

18. Further suggestions for this study, such as:

   - Other individuals who should be interviewed at your site.
   - Other applicable sites for interviews.
   - Other sources of information.
   - Products that would be most useful to you as a manager.
   - Ideas for future programs.

19. Would you be willing to have your contact information listed in the handbook so that you could serve as a resource to others?
APPENDIX B

NATIONAL PARK SERVICE DEFINITIONS
FOR CULTURAL LANDSCAPE TYPES

The definition for cultural landscape currently used by the National Park Service is:

a geographic area, including both cultural and natural resources and
the wildlife or domestic animals therein, associated with a historic
event, activity, or person or exhibiting other cultural or aesthetic
values. (Cultural Resource Management Guidelines, NPS-28)

National Park Service typology:

Historic site: the location of a significant event or activity, or a
building or structure, whether standing, ruined, or vanished, where the
location itself possesses historic, cultural, or archaeological value
regardless of the value of any existing structure.

Historic designed landscape: a landscape having historic significance
as a design or work or art because it was consciously designed and laid
out by a landscape architect, master gardener, architect, or
horticulturist according to design principles, or by an owner or other
amateur using a recognized style or tradition in response or reaction to
a recognized style or tradition; has a historic association with a
significant person or persons, trend, or event in landscape gardening or
landscape architecture; or a significant relationship to the theory and
practice of landscape architecture.

Historic vernacular landscape: a landscape whose use, construction, or
physical layout reflects endemic traditions, customs, beliefs, or values;
in which the expression of cultural values, social behavior, and
individual actions over time is manifested in the physical features and
materials and their interrelationships, including patterns of spatial
organization, land use, circulation, vegetation, structures, and objects;
and in which the physical, biological, and cultural features reflect the
customs and everyday lives of people.

Ethnographic landscape: a landscape traditionally associated with a
contemporary ethnic group, typically used for such activities as
subsistence hunting and gathering, religious or sacred ceremonies, and
traditional meetings. (NPS Preservation Brief No. 36, Protecting
Cultural Landscapes: Planning, Treatment, and Management of
Historic Landscapes)
APPENDIX C

WORLD HERITAGE CONVENTION DEFINITIONS OF CULTURAL LANDSCAPES

35. With respect to cultural landscapes, the Committee has furthermore adopted the following guidelines concerning their inclusion in the World Heritage List.

36. Cultural landscapes represent the “combined works of nature and of man” designated in Article 1 of the Convention. They are illustrative of the evolution of human society and settlement over time, under the influence of the physical constraints and/or opportunities presented by their natural environment and of successive social, economic, and cultural forces, both external and internal. They should be selected on the basis both of their outstanding universal value and of their representativity in terms of a clearly defined geo-cultural region and also for their capacity to illustrate the essential and distinct cultural elements of such regions.

37. The term “cultural landscape” embraces a diversity of manifestations of the interaction between humankind and its natural environment.

38. Cultural landscapes often reflect specific techniques of sustainable land-use, considering the characteristics and limits of the natural environment they are established in, and a specific spiritual relation to nature. Protection of cultural landscapes can contribute to modern techniques of sustainable land-use and can maintain or enhance natural values in the landscape. The continued existence of traditional forms of land-use supports biological diversity in many regions of the world. The protection of traditional cultural landscapes is therefore helpful in maintaining biological diversity.

39. Cultural landscapes fall into three main categories, namely:

i. The most easily identifiable is the clearly defined landscape designed and created intentionally by man. This embraces garden and parkland landscapes constructed for aesthetic reasons which are often (but not always) associated with religious or other monumental buildings and ensembles.

ii. The second category is the organically evolved landscape. This results from an initial social, economic, administrative, and/or religious imperative and has developed its present form by association with and in response to its natural environment. Such landscapes reflect that process of evolution in their form and component features. They fall into two sub-categories:

• a relict (or fossil) landscape is one in which an evolutionary process came to an end at some time in the past, either abruptly or over a period. Its significant distinguishing features are, however, still visible in material form.
• a continuing landscape is one which retains an active social role in contemporary society closely associated with the traditional way of life, and in which the evolutionary process is still in progress. At the same time it exhibits significant material evidence of its evolution over time.

iii. The final category is the associative cultural landscape. The inclusion of such landscapes on the World Heritage List is justifiable by virtue of the powerful religious, artistic, or cultural associations of the natural element rather than material cultural evidence, which may be insignificant or even absent.

40. The extent of a cultural landscape for inclusion on the World Heritage List is relative to its functionality and intelligibility. In any case, the sample selected must be substantial enough to adequately represent the totality of the cultural landscape that it illustrates. The possibility of designating long linear areas which represent culturally significant transport and communication networks should not be excluded.

41. The general criteria for conservation and management laid down in paragraph 24.(b).(ii) above are equally applicable to cultural landscapes. It is important that due attention be paid to the full range of values represented in the landscape, both cultural and natural. The nominations should be prepared in collaboration with and the full approval of local communities.

42. The existence of a category of “cultural landscape,” included on the World Heritage List on the basis of the criteria set out in paragraph 24 above, does not exclude the possibility of sites of exceptional importance in relation to both cultural and natural criteria continuing to be included. In such cases, their outstanding universal significance must be justified under both sets of criteria. (UNESCO. World Heritage Convention. *Operational Guidelines for the Implementation of the World Heritage Convention.* Paris: UNESCO, 1996.)
APPENDIX D

NATIONAL REGISTER BULLETINS
RELEVANT TO CULTURAL LANDSCAPES


APPENDIX E

LIST OF INTERVIEWEES

**Biscayne National Park**
Jim Adams, Cultural Resources Specialist (interviewed 1/19/01)

**Blue Ridge Parkway**
Gary W. Johnson, Chief, Resource Planning and Professional Services Division
(interviewed 10/19/00)
Laura Rotegard, Community Planner, Resource Planning and Professional Services Division (interviewed 10/19/00)

**Delaware Water Gap National Recreation Area**
Shaun Eyring, Landscape Architect, NPS Philadelphia Support Office (interviewed 10/24/00)
Patrick Lynch, Resource Management Division Chief (interviewed 12/21/00)
Zehra Osman, Park Planner (interviewed 9/29/00)

**Gettysburg National Military Park**
Deborah Darden, Chief of Resources Management (interviewed 10/23/00)
Bert Frost, Natural Resource Specialist (interviewed 9/12/00)

**Grey Towers National Historic Landmark (U.S. Forest Service)**
Jennifer Wellington, Landscape Curator (interviewed 8/31/00)

**Kellogg House**
Gene Graham (interviewed 12/21/00)

**Louisville Olmsted Parks**
Patricia O'Donnell, LANDSCAPES (interviewed 6/12/01)

**Lyndon B. Johnson National Historical Park**
Dale Scheier, Chief of Maintenance (interviewed 12/11/00)
John Tiff, Historian (retired) (interviewed 9/8/00)

**Marsh-Billings-Rockefeller National Historical Park**
John Gilbert, Facility Manager (interviewed 8/3/00)
Kyle Jones, Park Resources Manager (interviewed 7/27/00)

**Mt. Rainier National Park**
Greg Burtschard, Cultural Resource Specialist (interviewed 1/25/01)
Laurie Kurth, Plant Ecologist (interviewed 2/1/01)

**The Presidio of San Francisco, Golden Gate National Recreation Area**
Michael Alexander, Golden Gate National Recreation Area Citizen Advisory Commission (interviewed 4/24/01)
Michael Boland, Landscape Architect, Presidio Trust (interviewed 1/8/01)
Ric Borjes, Chief of Cultural Resources and Museum Management Division, Golden Gate National Recreation Area (interviewed 2/6/01)
Peter Ehrlich, Forestry Manager, Presidio Trust (interviewed 12/19/00)
Carey Feierabend, Planning Manager, Presidio Trust (interviewed 10/16/00)
Peter Owens, former Planner, Presidio Trust (interviewed 10/19/00)
Carol Prince, Deputy Director, Golden Gate National Parks Association (interviewed 5/15/01)
Nick Weeks, Historic Landscape Architect, Golden Gate National Recreation Area (interviewed 12/14/00)

Tallgrass Prairie National Preserve
Steve Miller, Superintendent (interviewed 11/10/00)

Yosemite National Park
Randy Fong, Historic Architect (interviewed 1/17/01)
Sue Fritzke, Supervisory Resources Management (Natural) (interviewed 12/20/00)
Russell Galipeau, Chief of Resources Management (interviewed 1/4/01)
Laura Kirn, Park Archaeologist (interviewed 1/11/01)
APPENDIX F

SOURCE MATERIALS FOR CASE STUDIES

Blue Ridge Parkway

Blue Ridge Parkway Official Map and Guide.
Briefing Paper on Viewshed Analysis.
“Strategic Plan for the Blue Ridge Parkway, 1997-2002.”

Delaware Water Gap National Recreation Area


Gettysburg National Military Park


Lyndon B. Johnson National Historical Park


The Presidio
“Vegetation Management Plan and Environmental Assessment, Appendix to the Staff Report, Analysis of Public Comment Received,” October 2000.

**Marsh-Billings-Rockefeller National Historical Park**


**Tallgrass Prairie National Preserve**


**Yosemite National Park**

APPENDIX G

WEB SITES RELEVANT TO CULTURAL LANDSCAPES

IUCN World Commission on Protected Areas
(http://www.iucn.org/themes/wcpa/wcpa/protectedareas.htm)

National Register of Historic Places
(http://www.cr.nps.gov/places.htm)

National Historic Landmarks
(http://www.cr.nps.gov/landmarks.htm)

World Heritage List
(http://whc.unesco.org/heritage.htm)

World Heritage Cultural Landscapes
(http://whc.unesco.org/exhibits/cultland/ref.htm)

National Park Service Historic Landscape Initiative
(http://www2.cr.nps.gov/hli/)

National Park Service Cultural Landscapes
(http://www.cr.nps.gov/landscapes.htm)