

# Tennessee Valley Authority

Section 3 Progress Report  
Executive Order 13287



## Historic Preservation on Federal Properties



# Tennessee Valley Authority

## Section 3 Progress Report Executive Order 13287, Preserve America



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# Summary

This report represents TVA's progress since the initial Section 3 report was submitted in 2004. TVA's first of its kind 2011 Natural Resource Plan, will advance the Preservation Program and management of cultural resources through the development of a Cultural Resource Management Plan (CRMP) and establishment of program goals for the identification, evaluation, and protection of historic properties under its management. The CRMP is expected to be completed prior to the submission of our next Section 3 report. The primary goal of the CRMP will be to establish a baseline for conditions and status for historic properties on TVA lands and to set goals for their future management. This will include establishing long-term goals for the completion of TVA's Section 110 inventory, development of a comprehensive database to improve consistency and efficiency of resource management, as well as long-term management goals for the monitoring and protection of historic properties. Future Section 3 reports will be guided by and include activities encompassed by TVA's Natural Resources Plan.

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## Introduction

Executive Order 13287 was signed in March of 2003 in an effort to reaffirm the Federal Government's commitment to preserving our national heritage through the encouragement of efficient management and viable use of historic properties. The tri-annual Section 3 reports provide agencies with the opportunity to continually improve and fine-tune their historic preservation programs, as mandated by the National Historic Preservation Act (NHPA) and to provide this progress to the Advisory Council on Historic Preservation (ACHP).

As a Federal agency, TVA is obligated to protect the many historic properties under its stewardship or affected by TVA projects pursuant to several federal laws and regulations. These projects range from the management and construction of power plants to the issuance of approval under Section 26a of the TVA Act. Historic properties managed by the agency include historic sites, buildings, structures, and objects, and archaeological resources important to prehistory or history.

On behalf of the United States, TVA originally acquired approximately 1.3 million acres of land in the Valley. Creation of the TVA reservoir system inundated approximately 470,000 acres with water. TVA has transferred or sold approximately 508,000 acres, the majority of which was transferred to other federal and state agencies for public uses. TVA currently controls approximately 293,000 acres of reservoir lands, which continue to be managed pursuant to the TVA Act (Figure 1).

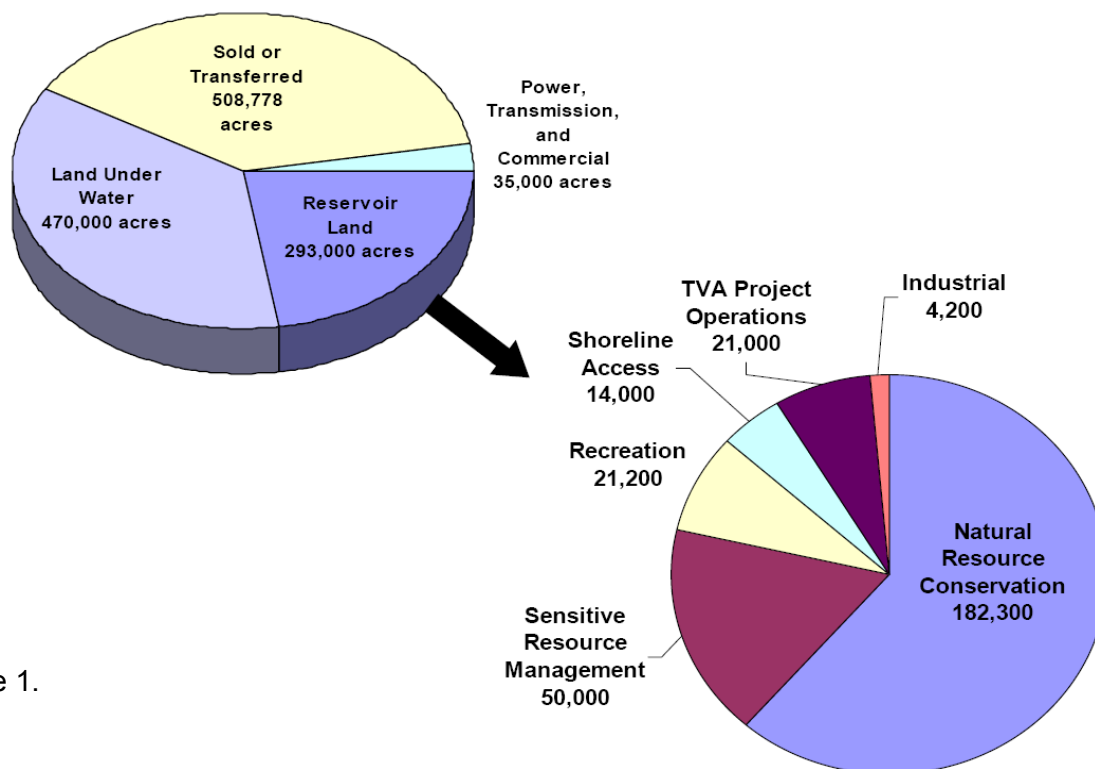
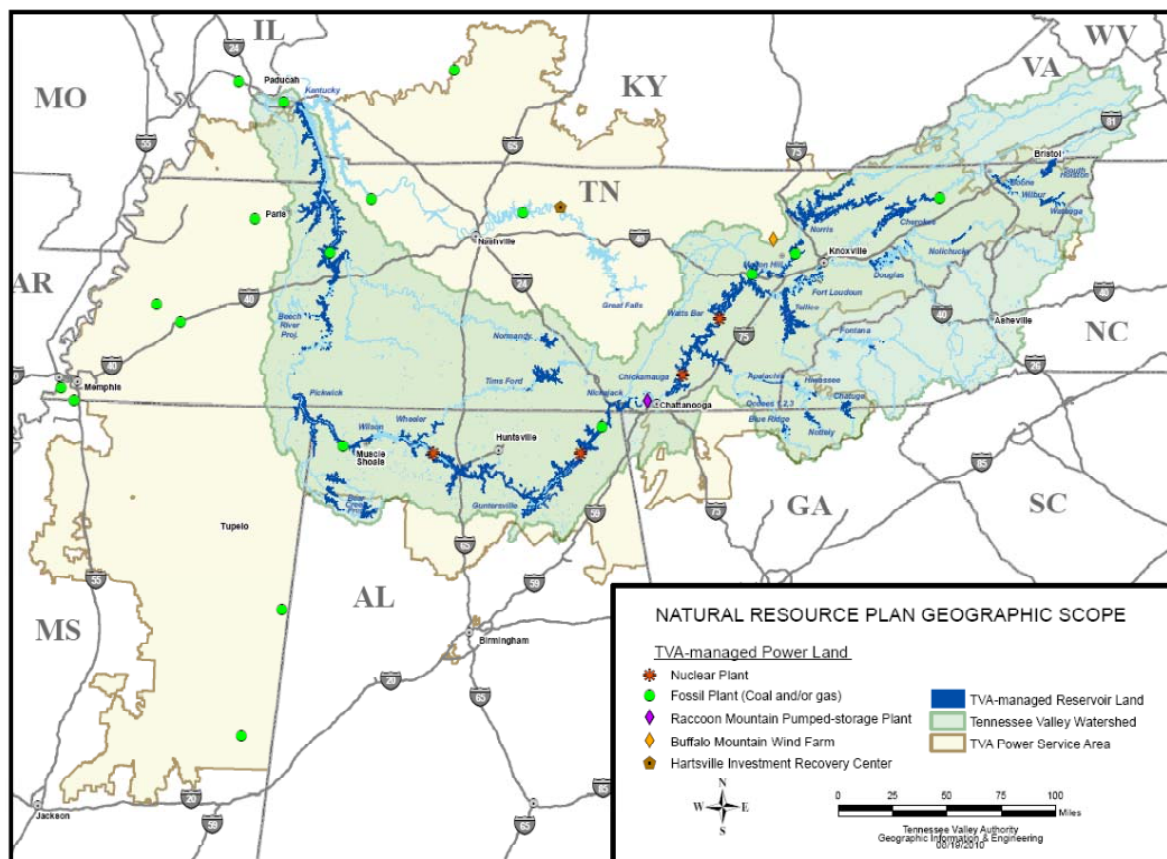


Figure 1.



In 2006, TVA adopted a Land Policy to guide retention, disposal, and planning of real property. Accordingly, it is TVA's policy to manage its lands to protect the integrated operation of the TVA reservoir and power systems, to provide for appropriate public use and enjoyment of the reservoir system, and to provide for continuing economic growth in the Valley. Recognizing that historical land transfers have contributed substantially to meeting multipurpose objectives, it is also TVA's policy to retain in public ownership the reservoir lands under its control except in those rare instances where the benefits to the public will be so significant that transferring lands to private ownership or another public entity is justified. The Land Policy is available at [http://www.tva.gov/river/landandshore/land\\_policy.htm](http://www.tva.gov/river/landandshore/land_policy.htm).



Map of the TVA Region

## Previous Reporting

In 2004, the Tennessee Valley Authority (TVA) submitted its initial report to the ACHP on its preservation program. However, the agency has not submitted a progress report since that initial assessment. This report will provide the ACHP with an update on its preservation program and assess changes as well as proposed improvements to be made by TVA since the initial assessment was made in 2004. The ACHP provided feedback on this initial report and TVA hopes that this update will address these questions and concerns.

## Background on TVA Historic Properties

### *Archaeological Resources*

Archaeological investigations in the TVA region began in the 19th century with the explorations of Cyrus Thomas, C. B. Moore, and the Smithsonian Institute (Guthe 1952). These early investigations focused on larger sites such as mound complexes and laid the foundation for the future role of archaeology in the U.S. The cultural history that was written as a result of these investigations along with other research that has been conducted in the Valley has been summarized elsewhere (TVA 1998; TVA 2004).

TVA's stewardship of archaeological resources began at its inception with the archaeological surveys conducted in the Norris, Wheeler, Pickwick, Gunter'sville, Hiwassee, Chickamauga, Gilbertsville (Kentucky), and Watts Bar basins through the efforts of local universities (Olinger and Howard 2009). Following World War II, archaeological surveys conducted on TVA-managed lands from 1940-1960 were sporadic until the NHPA was passed by Congress in 1966.



**WPA investigations from the 1930s.**

Following the passage of NHPA, numerous large-scale excavations were conducted as a result of agency undertakings that supported over 40 research volumes published by TVA and local universities. In 1983, TVA initiated an experimental archaeological stabilization program that explored various methodologies for the protection of archaeological sites eroding along the banks of its reservoirs. In addition, TVA conducted experiments on the placement of protective signage near sensitive archaeological sites being exposed to illegal looting.

As large-scale undertakings and excavations have been reduced in the recent decades and with the growing awareness of the sensitive nature of these nonrenewable resources, the Agency has moved toward a preservation focus to protect those archaeological resources remaining under its management.

## **Section 110 Inventory of Archaeological Resources**

In our 2004 report, TVA stated that approximately 271,000 acres out of 430,000 acres of above-pool land had been surveyed and that we annually inventory 3000 acres for archaeological resources. TVA currently manages approximately 293,000 acres surrounding TVA-managed reservoirs and 470,000 acres of inundated land totaling over 763,000 acres of public lands subject to the laws and regulations protecting archaeological resources.



**Example of shoreline protection.**

Over the last few decades, archaeological survey techniques have improved due to scientific and technological advancements, and as a result, archaeological survey coverage and site documentation on TVA-managed lands varies across the Valley. In the last 30 years, over 40 large-scale archaeological surveys have been conducted by TVA using varying levels of intensity. Survey coverage was recently reviewed as a part of TVA's Natural Resource Plan (see below for additional

information regarding this plan) and only survey data using systematic approach (meeting up-to-date state identification standards) are currently being included in our updated Section 110 inventory.

To date, TVA has documented approximately 11,500 archaeological sites on its lands (Table 1). Archaeological survey of lands inundated by TVA reservoirs varies across the Valley, and over 4,144 archaeological sites have been recorded below normal summer pool elevation. Because survey coverage below normal summer pool elevation is inconsistent and due to the lack of comprehensive data on survey coverage throughout TVA's history, it is not possible to estimate the percentage of TVA-managed lands that have been systematically surveyed within this 470,000-acre area. Many additional archaeological sites are likely present that have not been recorded as a result of the limited surveys conducted prior to construction of most TVA reservoirs. TVA often conducts identification surveys during temporary drawdown periods to identify those sites not normally exposed in regular reservoir operations.

**Table 1. Approximate Number of Archaeological Sites Identified on and Percent of TVA-Managed Lands Systematically Surveyed**

Location	Percent of TVA-Managed Land Systematically Surveyed	Number of Inundated Sites	Number of Sites Above Normal Summer Pool	Total Number of Sites Recorded*
<b>TVA-Managed Lands Adjacent to Reservoirs</b>				
Apalachia	16	14	2	16
Bear Creek Project	75	152	454	606
Beaver Creek	2	0	1	1
Blue Ridge	51	111	7	118
Boone	0	36	20	56
Chatuge	40	185	158	343
Cherokee	16	599	164	763
Chickamauga	8	103	455	558
Clear Creek	0	0	0	0
Douglas	Unknown	103	12	115
Fontana	Unknown	146	11	157
Fort Loudoun	0	65	31	96
Fort Patrick Henry	Unknown	35	37	72
Great Falls	0	0	0	0
Guntersville	<1	219	776	995
Hiwassee	40	248	16	264
Kentucky	1	500	1,335	1,835
Melton Hill	44	14	104	118
Nickajack	15	38	72	110
Nolichucky	0	0	0	0
Normandy	Unknown	0	43	43
Norris	Unknown	314	738	1,052
Nottely	12	168	56	224
Ocoee #1	10	20	1	21
Ocoee #2	0	0	0	0
Ocoee #3	0	0	0	0
Pickwick	29	222	596	818
South Holston	54	17	87	104
Tellico	7	285	368	653
Tims Ford	36	39	78	117
Watauga	Unknown	106	37	143
Watts Bar	41	151	477	628
Wheeler	8	254	1,077	1,331
Wilbur	0	0	0	0
Wilson	0	0	0	0
<b>Fossil Plants</b>				
Allen	0	N/A	0	0
Bull Run	<1	N/A	4	4
Colbert	10	N/A	11	11
Cumberland	8	N/A	4	4
Gallatin	37	N/A	1	1

Location	Percent of TVA-Managed Land Systematically Surveyed	Number of Inundated Sites	Number of Sites Above Normal Summer Pool	Total Number of Sites Recorded*
John Sevier	18	N/A	3	3
Johnsonville	10	N/A	0	0
Kingston	27	N/A	0	0
Paradise	<1	N/A	0	0
Saltillo	0	N/A	15	15
Shawnee	17	N/A	17	17
Watts Bar	15	N/A	1	1
Widows Creek	0	N/A	2	2
<b>Nuclear Plants</b>				
Bellefonte	38	N/A	5	5
Browns Ferry	23	N/A	6	6
Sequoyah	100	N/A	1	1
Watts Bar	0	N/A	4	4
<b>Other Properties</b>				
Raccoon Mountain	27	N/A	8	8
Hartsville	27	N/A	14	14
<b>Total</b>	<b>--</b>	<b>4,144</b>	<b>7,309</b>	<b>11,453</b>

\*Most of these totals are approximate due to lack of consolidated data across the Valley at the time of this publication.

### ***Condition of Archaeological Resources***

Archaeological sites under TVA's management are in various states of condition. Because a majority of TVA's lands are along river and lake settings, erosion has had an impact on these resources since the inundation of TVA reservoirs. With 11,000 miles of shoreline to manage, it is impossible to protect every site within this setting; however, TVA has made an effort to stabilize a number of eroding archaeological sites each year. In addition to the erosion problem, illegal looting activity, exacerbated by the erosion and vice versa, has also had a major impact to certain resources under TVA's management. TVA has initiated an ARPA investigation program to help reduce the looting incidents on TVA lands. Additional information on TVA's plan to establish goals for future archaeological protection can be found in the 2011 Natural Resource Plan on page 15.

### ***Inventory of Historic Architectural Resources***

Approximately 5,320 historic architectural resources including buildings, structures, and sites have been recorded on or near TVA-managed public lands (Table 2). Examples of these historic architectural resources include: gristmills, TVA dams, powerhouses associated with the dams, diversion flumes, homes, bridges, and cemeteries. Approximately 230 of the 5,320 historic architectural resources are considered either eligible or potentially eligible for listing in

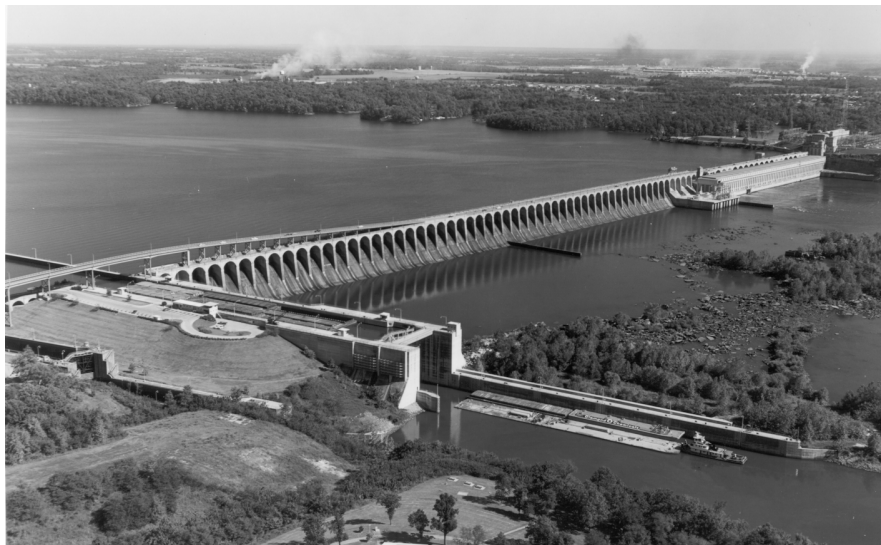


the NRHP; 85 historic architectural resources are listed in the NRHP; and there are nine NRHP historic districts. The historic districts include Little Bear, Normandy, Pickwick, Tims Ford, and Wheeler reservoirs, and four historic districts at Wilson Reservoir. In addition, Wilson Dam is listed as a national historic landmark. This is the only such designated TVA property, as well as the only such property within the study area. The study area is described in Section 1.5.

The majority of the data on historic architectural resources came from individual county surveys on file at State Historic Preservation Offices (SHPO) and from past TVA surveys, primarily associated with TVA's reservoir lands planning efforts. Some of these surveys are incomplete or out of date. Comprehensive work at South Holston, Douglas, Chatuge, Normandy, and Tims Ford reservoirs and partial coverage at Boone, Fort Patrick Henry, and Norris reservoirs supplemented these surveys.

The number of historic architectural resources varies substantially among the reservoirs. This reflects a wide variation in the availability of information about these architectural resources. Some areas have been surveyed more than other areas, and NRHP eligibility has not been assessed for many architectural resources. More comprehensive surveys and architectural resources assessments would likely result in a more equal distribution of architectural resources and NRHP-eligible architectural resources at each reservoir. Consequently, the variation in the distribution in the existing data was not a major consideration in the impact analysis.

TVA's fossil plants are potentially eligible for listing in the NRHP like many other TVA power-generating facilities. However, with the exception of fossil plant property at the plant sites, TVA-managed lands along the river system near the fossil plants are associated with TVA mainstream and tributary projects. Historical resource surveys within the fossil plants and associated contiguous lands are conducted on a case-by-case basis as TVA proposed projects are undertaken.



**Wilson Dam (National Historic Landmark) in Lauderdale and Colbert Counties, Alabama.**

**Table 2. Numbers of Historic Architectural Resources Surveyed**

<b>Project and Location</b>	<b>Recorded Historic Architectural Resources</b>	<b>NRHP-Eligible or Potentially Eligible Historic Architectural Resources</b>	<b>NRHP-Listed Historic Architectural Resources/Districts</b>
<b>Main Stem Projects</b>			
Kentucky, KY/TN	438	1	12
Pickwick, AL/MS/TN	151	2	1
Wilson, AL	21	1	4
Wheeler, AL	546	1	7
Guntersville, AL/TN	1,223	64	6
Nickajack, TN	50	1	0
Chickamauga, TN	138	1	10
Watts Bar, TN	91	1	10
Fort Loudoun, TN	139	1	2
<b>Total Main Stem</b>	<b>2,797</b>	<b>73</b>	<b>52</b>
<b>Tributary Projects</b>			
Norris, TN	421	22	1
Melton Hill, TN	19	1	5
Douglas, TN	413	47	4
South Holston, TN/VA	184	17	1
Boone, TN	89	4	5
Fort Patrick Henry, TN	73	1	0
Cherokee, TN	362	12	8
Watauga, TN	67	1	0
Wilbur, TN	0	1	0
Fontana, NC	28	1	3
Tellico, TN	269	6	3
Chatuge, NC	25	4	2
Nottely, GA	23	5	2
Hiwassee, NC	25	1	2
Apalachia, NC	1	1	0
Blue Ridge, GA	38	1	0
Ocoee #1, TN	1	2	1
Ocoee #2, TN	0	1	1
Ocoee #3, TN	1	1	0
Tims Ford, TN	158	3	1
Normandy, TN	93	1	4
Great Falls, TN	111	1	0
Upper Bear Creek, AL	63	2	0
Bear Creek, AL	2	2	1
Little Bear Creek, AL	14	1	1
Cedar Creek, AL	45	21	0
<b>Total tributary</b>	<b>2,525</b>	<b>160</b>	<b>42</b>
<b>Total projects</b>	<b>5,322</b>	<b>233</b>	<b>94</b>

**State abbreviations:** AL = Alabama; GA = Georgia; KY = Kentucky; MS = Mississippi; NC = North Carolina; TN = Tennessee; VA = Virginia

### ***Condition of Historic Buildings and Structures***

TVA, to the extent practicable, maintains its historic properties. Priority is given to those properties that are mission-oriented and generally occupied. TVA dams and associated buildings and structures, such as powerhouses and substations, are maintained regularly to ensure power reliability across the valley, and to ensure the health, safety, and welfare of TVA employees and visitors to TVA properties. Other properties, such as TVA office complexes that are potentially eligible for listing on the NRHP are maintained with in-kind materials when available. Vacant buildings and structures are maintained when funds are available, generally when safety is an issue. In all instances, however, when buildings or structures are modified TVA consults with the SHPO to ensure that NHPA responsibilities have been met.

### ***National Register of Historic Places***

TVA manages a number of significant archaeological sites that have had an important contribution to the understanding of prehistory in the Southeast. These resources include the Seven Mile Island Archaeological District (listed in the NRHP) and Dust Cave in Alabama, Hiwassee Island and Ledbetter sites in Tennessee, Jonathon Creek site in Kentucky, and Yellow Creek in Mississippi, as well as hundreds of other sites that have been included in academic research since the inception of TVA. Although 11,500 archaeological sites have been identified on TVA lands, only about 25% of these have been assessed for their NRHP eligibility. TVA manages 19 historic properties listed in the NRHP (Table 3). These include the pre-TVA dams (Ocoee #1 and #2, Blue Ridge, Wilson, Great Falls, and Wilbur), Seven Mile Island, numerous furnace sites across the Valley, and several archaeological sites excavated and inundated by TVA Reservoirs.



**Pictograph from Rock Art Site along Tennessee River in North Alabama.**



**Table 3. TVA Historic Properties Listed on the National Register**

Property Name	Location	Date Listed
Wilson Dam	Colbert County , Alabama	11-13-1966
Fort Harker	Jackson County, AL	05-02-1977
Florence Wagon Works Site	Lauderdale County, AL	06-13-1996
Seven Mile Island Archeological District	Lauderdale County, AL	04-16-1979
Warden's Residence	Madison County, AL	05-17-2010
Shaddon Mill Site	Blount County, TN	08-21-1989
Bussell Island Site	Loudon County, TN	03-29-1978
Blythe Ferry (Boundary Increase)	Meigs County, TN	10-03-2007
Chota and Tanasi Cherokee Village Sites	Monroe County, TN	08-30-1973
Citico Site	Monroe County, TN	11-02-1978
Icehouse Bottom Site	Monroe County, TN	10-19-1978
Mialoquo Site	Monroe County, TN	10-19-1978
Tellico Blockhouse Site	Monroe County, TN	08-11-1975
Tomotley Site	Monroe County, TN	10-19-1978
Toqua Site	Monroe County, TN	11-16-1978
Ocoee Dam No. 1	Polk County, TN	10-31-1979
Ocoee Hydroelectric Plant No. 2	Polk County, TN	10-31-1979
Fort Henry Site	Stewart County, TN	10-10-1975
Great Falls Hydroelectric Station	White County, TN	07-05-1990

## Partnerships

TVA has developed several partnerships to improve its management of cultural resources in the Tennessee Valley. As a part of the NRP - TVA plans to expand these partnership opportunities with State, Federal, Tribal and community groups. Significant examples of these activities are provided below:

### ***Public Outreach and Education***

- Representatives from the Eastern Band of Cherokee Indians requested TVA's assistance for their Cherokee Language Summer Camp, a cultural learning event for their youth, occurring at the Nottely Fish Weir on Monday, July 18, 2011. Besides partnering with the tribe to ensure a safe water level and flow for their event, TVA also provided a representative to discuss the history of the dam and river management. Other agency participation with the tribe on this event included the US Army Corps of Engineer, the US Fish and Wildlife Service, and the NC State Historic Preservation Officer.
- TVA archaeologists have partnered with several schools on archaeological activities in the classroom. Schools include Kings Academy in Seymour, Tennessee, Hickory Elementary School in Coffee County, Tennessee, and Scottsboro Elementary in

Scottsboro, Alabama. The NRP proposes to expand these programs across the TVA valley to reach a broader audience.

### ***NAGPRA***

- TVA is partnering with the University of Tennessee's McClung Museum on the agency's first repatriation effort under the Native American Graves Protection and Repatriation Act. This particular repatriation involves a portion of objects excavated from archaeological sites in the Tellico Reservoir.

### ***Corporate History Program***

- TVA's Corporate Historian sits on the Advisory Committee of the Center of Oak Ridge Oral History. This Advisory Committee is made up of representatives from the City of Oak Ridge, American Museum of Science and Energy, Children's Museum of Oak Ridge, Oak Ridge Heritage & Preservation Association, Tennessee State Library and Archives, University of Tennessee's Center for Study of War and Society, U.S. Department of Energy, Oak Ridge Office, National Nuclear Security Administration, U.S. Department of Energy, Office of Science & Technical Information, Oak Ridge Site Specific Advisory Board, and the Oak Ridge Community.

### ***Archaeological Resources Protection Act***

- TVA has recently partnered with the National Park Service on a multi-agency investigation under the Archaeological Resource Protection Act for cases involving individuals looting archaeological sites on both TVA and NPS lands in the TVA region. TVA Police investigators and archaeologists are working with NPS Special Agents and archaeologists on 2 on-going cases in FY11.

## **Managing Assets**

### **Muscle Shoals Redevelopment Project**

#### Site History

TVA Muscle Shoals/Wilson Dam Reservation is comprised of approximately 3,000 acres that were acquired from the War Department in 1933. Prior and current uses of this property include: chemical production of explosives, fertilizer research and development, and TVA operations.

Since the early 1990's, TVA operations on the Reservation have declined significantly, and currently approximately 600-700 employees work at this location. As a result, a portion of the land and many buildings on the Reservation are underutilized.

#### Redevelopment Project Initiated

Over the years, TVA has been approached by local officials and developers to sell portions of the Reservation property for redevelopment. In 2007, TVA officials met with federal and local officials to discuss possible redevelopment to support economic development in this area. As a result of that discussion, TVA identified approximately 1,400 acres of the Muscle Shoals Reservation that could be made available for redevelopment following appropriate review and approval. This property is primarily located south of Reservation Road and includes over 90 buildings and structures, 51 of which have been determined as eligible for listing on the NRHP.

TVA identified the need for a single entity to represent the Shoals community in this effort, and the local officials formed the Northwest Alabama Cooperative District (NACD) for that purpose. This group is comprised of representatives of the cities of Florence, Muscle Shoals, Sheffield, and Tuscumbia and of Colbert and Lauderdale counties. TVA has committed to work with and through the NACD on the possible redevelopment effort to improve the economic vitality of the Shoals area.

As part of this project, a comprehensive redevelopment plan will be developed. This plan will include input from interested stakeholders and the general public and serve as the roadmap for how the property could be redeveloped consistent with the environmental review and the agreement document dealing with historic properties. Proposals for uses on the property, treatment of historic properties, and design guidelines for infill development will be identified and vetted during the planning process.

#### Status

As required by the National Environmental Policy Act, TVA has prepared an Environmental Impact Statement (EIS) to address potential environmental impacts from the proposed redevelopment. TVA has also initiated consultation with the Alabama Historical Commission regarding archaeological sites and buildings and structures eligible for listing in the NRHP to satisfy requirements associated with Section 106 of the National Historic Preservation Act (NHPA). These activities are scheduled to be completed during the 4th quarter of fiscal year 2011.

## **Protection of Historic Properties**

TVA has had a number of on-going programs that have been in place for the protection of historic properties. These programs have focused primarily on archaeological sites thus far and are summarized below. These descriptions summarize the efforts TVA has made in these areas up until 2011. In 2011, TVA completed a Natural Resource Plan to improve the management of its natural and cultural resources on its lands. The comprehensive plan includes improving TVA's cultural resource management programs and increasing the integration of this management with other natural resource programs. A complete description of this plan can be found on page 15.

### ***Archaeological Site Protection***

In 1998 TVA initiated its current archaeological protection program with a focus on stabilization of archaeological sites. Since that time TVA has protected over 22 miles of shoreline including 130 archaeological sites. Work is conducted in a manner that results in no ground disturbance in order to reduce impacts and ensure protection of remaining deposits. In addition to stabilization, TVA has also protected 5 caves with archaeological deposits and maintains 4 cave gates for both biological and cultural resource protection.

As with the inventory data, these numbers reflect a close approximation of the actual number of sites and shoreline miles protected. TVA has set a goal in the next 3 years to develop a new comprehensive database to accurately track and manage the protected resources as well as for monitoring those in need of protection in the upcoming years.

### ***ARPA Protection***

Because a majority of TVA's lands are located along the rivers and waterways - there is a high density of significant archaeological sites within our management. In addition, these locations are easily accessible and difficult to monitor regularly - making them vulnerable to looting activity.

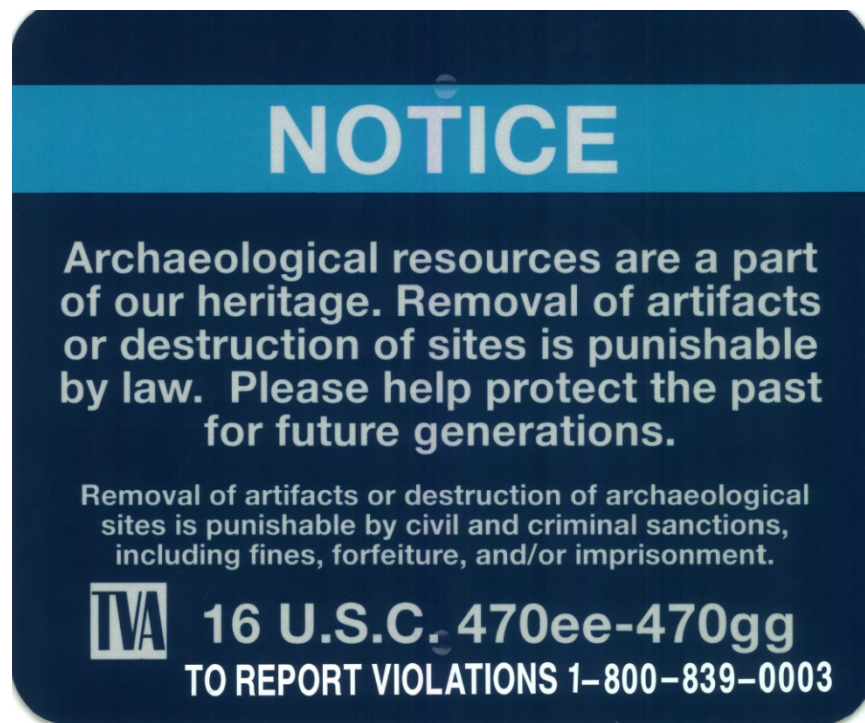
In 2006, TVA initiated an ARPA investigation program and has 2 TVA Police investigators dedicated solely to ARPA cases. With over 11,500 archaeological sites to manage across 7 states, this limits their availability greatly. These investigators work with state and local law enforcement officers

Since the inception of this program, TVA has seen an increase in ARPA Criminal cases and averages 5-10 cases per year.

## ***Public Outreach***

In an effort to share the need for archaeological resource protection on TVA and other public land, TVA has developed an archaeological public outreach program called *A Thousand Eyes* which has participated in events and activities with school groups and other community organizations since its establishment in 2003. Within the budget for this program, a majority of the participating events have been by invitation or resulting from a Section 106 undertaking. For additional information on this program, see page 19 on the 2011 Natural Resource Plan.

In 2009 TVA began posting archaeological sites at public access areas to notify users of the need for protection of these resources. Since then TVA has posted over 100 signs across the valley. The intent of these signs is to send a positive message to the public while notifying them of the criminal and civil penalties involved in an ARPA violation.

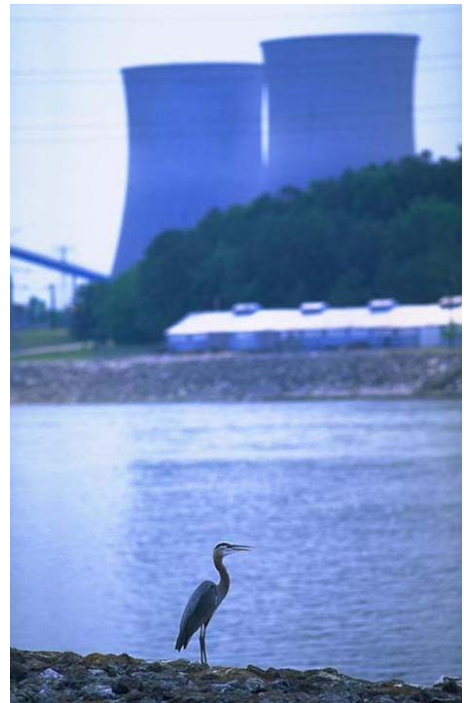


**Example of TVA ARPA signs placed at public access points.**

## TVA 2011 Natural Resources Plan

For more than seven decades, the TVA has been improving the quality of life in the Tennessee Valley region through its threefold mission of providing affordable and reliable power, promoting sustainable economic development, and acting as a steward of the Valley's natural resources. The lands managed by TVA in the name of the United States of America are some of the most important resources of the region. They have provided the foundation for the dams and reservoirs that reduce flooding and provide the benefits of a navigable waterway and low-cost hydroelectricity. They are also the sites for power generating facilities and arteries for delivering that power. Many of the parks, recreation areas, and wildlife refuges that are so important for the region's quality of life are on lands owned or formerly owned by TVA. TVA's public lands often have been the catalyst for public and private economic development.

In May 2008, the TVA Board of Directors (TVA Board) approved the TVA Environmental Policy. The Environmental Policy sets forth principles to guide TVA in the reduction of the environmental impacts of its operations while continuing to provide reliable and affordable power to the Valley. By establishing the Environmental Policy, TVA committed to a more systematic and integrated approach to managing stewardship. The Natural Resource Plan (NRP) addresses TVA's activities involving Water Resource Protection and Improvement, Sustainable Land Use, and Natural Resource Management. Specifically, the NRP includes biological resources management, cultural resources management, recreation management, reservoir lands planning, and water resource management.



**Great Blue Heron near Watts Bar NP.**



**Searching for Snail darters on the South Holston River.**



***As a part of the NRP planning process, TVA plans to prepare a Cultural Resource Management Plan (CRMP) to increase efficiency and establish long-term goals for the management of historic properties under its management. The CRMP will outline goals for the following NRP programs:***

***Archaeological Monitoring and Protection Program***

Pursuant to Section 110 of the NHPA and ARPA, TVA is obligated to protect the archaeological resources located on lands it manages. To meet these obligations, TVA's CRMP will document the agency's program for the monitoring and protection of archaeological sites potentially affected by TVA actions.

- Archaeological Monitoring Program — TVA will formalize its monitoring process and proposes to develop long-term management goals and monitoring plans for improved protection and management of archaeological resources.
- Archaeological Site Protection Program — TVA will continue to stabilize critically impacted archaeological resources and protect other resources (such as caves) that are being impacted by looting, erosion, and other damaging activities. TVA has historically taken measures to protect about 0.2 miles of shoreline containing archaeological resources per year. These measures often consist of protecting the area by covering it with geotextile fabric and rock riprap. The riprap is placed from either the bank or from a shallow draft barge, depending on the characteristics of the particular site.



**Photograph showing updated protection at Dust Cave archaeological site (1LU496) in 2010.**

## ***Preservation Program***

Section 110 of the NHPA requires federal agencies to establish a historic preservation program to manage historic properties under the Agency's purview. Federal agencies are responsible for identifying and protecting historic properties in a manner that benefits both the resource and the public. The existing and proposed activities associated with TVA's Preservation Program are described below.

- Conduct Archaeological Identification Surveys — TVA has conducted systematic archaeological surveys on about 88,000 acres of its lands and currently surveys 2,000 - 3,000 acres per year. TVA is proposing to continue and increase as resources are available its annual archaeological identification surveys of TVA lands.



**Phase 1 Archaeological survey along Clinch River in Anderson County, TN.**

- Maintain Historic Photo Collection — TVA currently maintains a collection of more than 17,000 photographic negatives documenting its history from its inception in 1933 to the mid-1980s. This collection also contains thousands of more recent original file copy prints and thousands of 35-millimeter negatives. This collection is currently being digitized to preserve the original negatives.



**Fontana Dam at night.**

- Maintain TVA's Historic Agency Information — TVA currently receives hundreds of requests for information about its history from people with a broad spectrum of general and professional interests. TVA is proposing to modernize its historic information to aid in efficiently responding to public requests.



- Maintain Cemetery Database — TVA maintains a database of cemeteries that were once located on TVA lands and were investigated and moved prior to the construction of many of its reservoirs.



**Cemetery on TVA property.**

- Evaluate and Nominate Historic Properties to the NRHP — Pursuant to Section 110 of the NHPA, federal agencies are responsible for the identification, evaluation, and nomination of historic properties to the NRHP. TVA currently has a small program in place for the identification of new historic properties each year, however it has not yet evaluated or nominated sites for inclusion in the NRHP. TVA is proposing annually evaluate and nominate a number of significant historic properties under its management.
- Develop Comprehensive Database — Pursuant to Section 112 of the NHPA, federal agencies shall ensure that records and other data are permanently maintained in appropriate databases. TVA maintains numerous data sources relating to historic properties under its management. However, these sources are fragmentary. As a result, TVA does not have consolidated data on historic properties or survey data, site location information, and other historic data for the resources under its management. Development of a database with GIS components would improve efficiency and the overall management of TVA's historic properties.
- Maintain TVA Historic Collection — TVA maintains a unique collection of historic artifacts that it has acquired throughout its history. TVA is considering improving its curation of this collection to meet the standards consistent with 36 CFR 79 *Curation of Federally-Owned and Administered Archaeological Collections*. Another potential improvement to this program is the development of implementation procedures.
- Identification and Management of Historic Buildings and Structures – TVA is proposing to develop a plan for the identification, evaluation, and nomination of historic buildings and structures on TVA-managed lands.

## ***Preserve America***

EO 13287 directs federal agencies to improve their knowledge about, and management of, historic resources in their care. The existing and proposed activities associated with Preserve America are described below.

- Conduct Adaptive Reuse Studies of TVA's Historic Buildings — TVA historic buildings that have been determined surplus are evaluated for the feasibility of adaptive reuse.
- Submit NHPA Section 3 Reports on Section 110 Progress — Preserve America requires all federal agencies to prepare a report (Section 3 report) on these needs and submit it to the Secretary of the Interior and the Advisory Council on Historic Preservation by 2005. In addition, agencies are to submit progress reports every three years detailing the current status of their Section 110 progress.
- Identify Historic Properties That May Be Suitable for Heritage Tourism — TVA is proposing to develop and implement a plan to identify and maintain a list of properties suitable for supporting heritage tourism.

## ***Archaeological Outreach (Thousand Eyes Program)***

TVA is mandated by ARPA to establish a program to increase public awareness of the need to protect archaeological sites located on public lands. These public awareness activities are incorporated into TVA's cultural, biological, and water resource management programs where appropriate. TVA has established the Thousand Eyes Program specifically to meet the obligations under this portion of ARPA. Program elements include presentation to school and other groups and the distribution of brochures. TVA is proposing to expand the program by sponsoring more outreach activities and developing partnerships with other agencies, SHPOs, tribal governments, and other interested organizations to increase efforts in better reach target audiences.



**Archaeology table at TVA's Kids in the Creek**

## Other NRP Programs

In addition to those programs to be addressed in the CRMP, the NRP set goals for other cultural resource related activities associated with other laws and regulations guiding historic property management and consultation. These programs include:

### ***Archaeological Resources Protection Act (ARPA) Program***

ARPA was enacted to preserve and protect archaeological resources and sites on federal and Native American lands. The existing and proposed TVA-specific activities related to ARPA are described below.

- ARPA Inspections and Investigations — Two TVA Police officers are currently dedicated to the enforcement of ARPA criminal provisions. They conduct approximately 1,000 security checks per year; these consist of visiting archaeological sites on TVA lands and monitoring for illegal activity. Between 10 and 20 cases are investigated each year and about 6 cases are submitted to the U.S. Attorney's office for further investigation and about 6 per year are prosecuted. Criminal cases are tried through the federal court system when archaeological assessments include over \$500 worth of damage, and cases can be tried as felonies with penalties of up to \$20,000 in fines and up to two years' imprisonment. Individuals who damage archaeological resources, regardless of intent, can be liable for civil penalties under ARPA.

### ***Native American Consultation***

TVA formally consults with federally recognized tribes to meet the objectives of NAGPRA, NHPA, the American Indian Religious Freedom Act, EO 13007 (Indian Sacred Sites), EO 13175 (Consultation and Coordination With Indian Tribal Governments), the April 29, 1994, executive memorandum regarding government-to-government relationships with tribal governments (<http://www.justice.gov/archive/otj/PresidentialStatements/presdoc1.htm>), and the November 5, 2009, presidential memorandum regarding tribal consultation (<http://edocket.access.gpo.gov/2009/E9-27142.htm>). To facilitate such consultation, TVA has established a staff position designated as Native American liaison. TVA conducts a formal consultation workshop with federally recognized Native American tribes every five years.



**Tribal Consultation Meeting.**

### ***Native American Graves Protection and Repatriation Act***

The Native American Graves Protection and Repatriation Act (NAGPRA) provides for the protection of Native American cultural items and establishes a process for the authorized removal of human remains, funerary objects, sacred objects, and objects of cultural patrimony from sites located on lands owned or controlled by the federal government. NAGPRA also establishes a process for the transfer of ownership of cultural items to Native American individuals (e.g., direct lineal or cultural descendants), organizations, or tribes. It addresses the recovery, treatment, and repatriation of Native American cultural items by federal agencies and museums. TVA's NAGPRA-related activities include the following:

- Maintain NAGPRA inventory
- Complete Notices of Inventory
- Dispose of Native American human remains, associated funerary objects, and objects of cultural patrimony excavated or discovered after 1990
- Consult with museums and federally recognized tribes
- Repatriate Native American human remains, associated funerary objects, and objects of cultural patrimony curated prior to 1990

### ***Corporate History Program***

TVA has a fascinating history receives hundreds of questions each year about its past. The existing and proposed projects associated with TVA's Corporate History Program are described below.

- Update the "TVA Timeline" — TVA currently has a history timeline; however, it has not been updated for many years. TVA is proposing to conduct the necessary research and annually update this timeline.
- Establish an Oral History Program — Pending funding, TVA's proposed oral history project would establish new and gather existing recordings or transcripts from planned oral interviews with individuals who were important in the shaping of TVA's history. These created and preserved interviews are intended for use by researchers and historians. This oral history project would serve to document the Agency's history. Oral history frequently complements the written record.
- Establish TVA History Website and Outreach Program — Pending available funding, TVA is proposing to develop a website on the Agency's history and historic programming showcasing the significant periods of TVA history.

# Conclusion

TVA anticipates that the Natural Resource Plan will advance the Preservation Program and management of cultural resources through the development of a Cultural Resource Management Plan (CRMP) and establishment of program goals for the identification, evaluation, and protection of historic properties under its management. The CRMP is expected to be completed prior to the submission of our next Section 3 report. The primary goal of the CRMP will be to establish a baseline for conditions and status for historic properties on TVA lands and to set goals for their future management. This will include establishing long-term goals for the completion of TVA's Section 110 inventory, development of a comprehensive database to improve consistency and efficiency of resource management, as well as long-term management goals for the monitoring and protection of historic properties. Future Section 3 reports will be guided by and include activities encompassed by TVA's Natural Resources Plan.