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## A. Economic & Market Assessment

This section of the plan's Background Study summarizes the key findings of a full economic and market assessment as input to the Management Plan for the Muscle Shoals National Heritage Area. Contained in this plan's appendices section as **Appendix F**, this assessment includes an overview of economic conditions in the area, along with an inventory and review of tourism sites and services in the region. Tourism flow and trends were analyzed. Heritage tourism market potentials are then forecasted for the area as a basis for identifying opportunities for tourism development. A more detailed report will be produced to provide additional background information on the individual sites and attractions assessed as input to the analysis. Recommendations for implementation of projects and programs will also be provided in a later report. Below is a summary of the assessment's organization:

Section 1: Economic & Tourism Sector Overview

Section 2: Heritage Tourism Asset Base

Section 3: Heritage Tourism Market Potentials

Section 4: Program & Project Concepts

### G1. Economic & Tourism Sector Overview

The Muscle Shoals National Heritage Area (MSNHA) is comprised of six counties in northwest Alabama, with economic and population hubs including Decatur, the Shoals, and Athens. The Shoals consists primarily of the cities of Florence, Sheffield, Muscle Shoals, and Tuscumbia. This region has seen a long-term transition from river to rail to highway-oriented economy. Cheap electricity and access to water helped attract a boom in manufacturing to Decatur and other Tennessee River Valley cities starting in the 1930s. However, the region's manufacturing employment has been in decline much like that of the nation in recent years. Meanwhile, nearby Huntsville's economy is driven by 21<sup>st</sup>-century space and missile technologies. That city's growth has helped fill the gap left by heavy manufacturers, attracting workers and commuters from Morgan, Limestone, and other MSNHA counties. While many industries falter, tourism appears to remain healthy throughout the region. Accommodation and transportation services growth has increased rapidly, and its employment base is spread more evenly throughout the six-county area. Despite a temporary setback due to the recession, the industry continues to attract more than 1.3 million people per year to the area, many of whom are experiencing the region's rich natural and cultural heritage. Among this section's key findings are the following:

- The six-county region covered by the MSNHA saw a significant decrease in the jobs base since 1998.
- Much of the MSNHA economic base is concentrated in Morgan County (Decatur), which has a rich but declining supply of jobs in the manufacturing sector (40% of the area's manufacturing jobs).
- Manufacturing is still the largest employer in the region, accounting for more than one-quarter of all jobs.
- The tourism sector is among the few growth sectors in the region since 1998, as evidenced by increased employment in transportation services, accommodation, and foodservice.
- While the tourism industry has seen a temporary set-back during the recent recession, its 9.0% decrease from 2008 to 2010 indicates more resiliency than some other sectors of the local economy.
- The Alabama Mountain Lakes Tourist Association (AMLTA) proactively "publicizes, promotes, advertises and encourages the further development" of the entire North Alabama region for tourism.
- There are several key "drivers" for tourism in the area (including just beyond the MSNHA boundaries), including long-distance highways (Interstate 65, U.S. Highways 72 and 72A, Natchez Trace Parkway), large cities (Huntsville), and major attractions (U.S. Space & Rocket Center, Tennessee River, TVA Lakes).
- The number of tourists within the MSNHA has been estimated by the State's Department of Tourism at about 1.3 million (2010).

- Tourism expenditures for the MSNHA were estimated at about \$470.0 million in 2010, down by \$31.7 million from 2008

<b>Table 3. TOURISM VISITOR TRENDS, MUSCLE SHOALS NATIONAL HERITAGE AREA COUNTIES, 2008-2010</b>					
<b>County/City</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2008-2010 Change</b>	
				<b>Number</b>	<b>Percent</b>
Colbert (MS/Tuscumbia)	167,048	148,983	123,192	(43,856)	-26.3%
Franklin (Russellville)	30,493	31,282	33,552	3,059	10.0%
Lauderdale (Florence)	405,221	389,552	423,318	18,098	4.5%
Lawrence (Moulton)	38,311	33,607	32,324	(5,987)	-15.6%
Limestone (Athens)	209,410	194,677	240,611	31,201	14.9%
Morgan (Decatur)	504,134	435,704	450,214	(53,921)	-10.7%
<b>TOTAL</b>	<b>1,354,616</b>	<b>1,233,804</b>	<b>1,303,210</b>	<b>(51,406)</b>	<b>-3.8%</b>
<b>Sources:</b>	State of Alabama, Department of Tourism and Randall Gross / Development Economics.				

## G2. Heritage Tourism Asset Base

### Section Overview

This section of the report (Appendix F) summarizes findings from an inventory and assessment of the region's tourism asset base, with a particular focus on heritage tourism. The inventory and analysis were conducted based on extensive field reconnaissance, interviews with operators and managers, and other research. This inventory includes over 700 tourist attractions, museums, parks and natural assets, towns and districts, festivals, sports and recreation facilities, trails and tours, lodging facilities, unique stores, tourism organizations, and related activities. These activities are summarized by type, then by theme. A more detailed analysis of the activities is then provided for heritage-related festivals, museums, natural areas, and historical sites and parks. This analysis includes a discussion of attendance and other factors, while a more detailed assessment of individual sites will be provided in a follow-up report.

### Summary of Findings

The MSNHA has a rich heritage leveraged by the Tennessee River and its natural resources, Native American cultures spanning 10,000 years, and music created and produced by local artists that changed the world. There are 130 festivals, nearly 30 museums, almost 100 parks and natural sites, 45 downtowns and historic districts, 110 lodging facilities, 100 historic sites, and 42 trails and tours. The region has a substantive heritage asset base, much of which is already marketed and promoted through regional and local tourism agencies. The area attracts an estimated 1.2 million per year to heritage sites, museums and natural areas. While nearly one third of visitors originate from within the region, many others are from other parts of Alabama and Tennessee. However, nearly 50% of visitors originate from outside of the region, including foreign countries. Some of the attractions could generate higher visitor numbers through enhancements discussed further in the Appendix F report. More detail on individual attractions and sites will be provided in a later report. Among this section's key findings are the following:

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### Tourism Assets

The MSNHA features the following tourism assets:

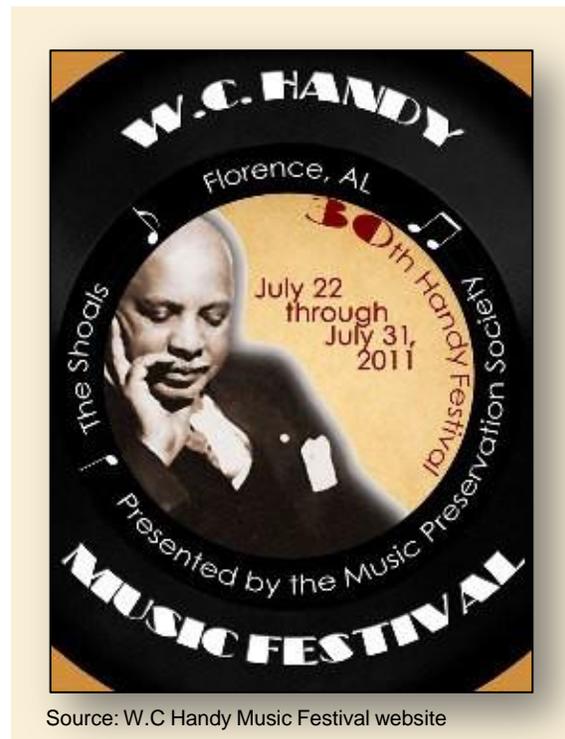
- Nearly 130 festivals
- 26 museums (most are in the area's large communities).
- At least 42 public parks, more than 24 public sports and recreation facilities, and 28 natural resource areas and sites
- 4 large TVA-managed lakes (Pickwick, Wheeler, Wilson and Bear Creek)
- 17 golf courses, including 2 on the Robert Trent Jones Golf Trail
- At least 45 downtowns and historic districts, which include at least 32 unique retail businesses and almost 10 historic theatres
- Nearly 110 lodging facilities and 6 conference and convention venues (many of the lodging facilities are clustered along I-65)
- Over 100 historic sites, including many that represent the MSNHA's three primary themes
- 42 trails, driving tour routes, and walking tour routes

There are also numerous historic sites related to the MSNHA's three primary themes: Native American heritage, the Tennessee River, and music (see the full report in Appendix F for a listing of such sites).

### Heritage Venue Attendance

Various data and information was collected for this study from tourism sites within the MSNHA. Among the information collected is data on attendance trends, as well as sources and origin of visitors, pricing, hours of operation, travel routes, and other information. A great deal of site reconnaissance was also conducted. Below are some key findings:

- There is a total average festival attendance of over 617,000 per year, although the total head count excluding repeat visitors is closer to 300,000. This is a significant number given that the entire population of the MSNHA is around 600,000.
- The highest attendance was recorded at the W.C. Handy Festival, which attracts an average attendance of 135,000 people.
- Collectively, MSNHA museums attract an estimated 103,000 per year, with the Cooks Natural Science Museum in Decatur attracting the highest attendance at nearly 20,000 per year and the Alabama Music Hall of Fame in Tusculmbia attracting nearly as many at an average of 18,700 per year.
- Joe Wheeler State Park attracts 242,000 visitors per year, followed by Point Mallard Park (Decatur) at 170,000 and Spring Park (Tusculmbia) at 138,000 visitors. The latter two attract mainly local visitors, but Joe Wheeler attracts visitors from a relatively broad region.
- Ivy Green (Helen Keller's home) is the most visited historic site in the MSNHA, with attendance averaging 35,000 per year.



Source: W.C Handy Music Festival website

With respect to the music theme of the MSNHA, neither FAME nor the Muscle Shoals Sound Studio are marketed for tourists, and there is no managed interpretation or guided tour for either facility. As the chart on the following page illustrates, approximately 38% of the tourism visitor base within the MSNHA is generated by local visitors from within Northwest Alabama. Roughly 8% is generated by visitors from

Huntsville and Northeast Alabama, while 6% is generated by visitors from the Birmingham-Tuscaloosa area.

<b>Table 5. EXISTING HERITAGE TOURISM SOURCE MARKETS, MUSCLE SHOALS NATIONAL HERITAGE AREA, 2011</b>		
<b>Source</b>	<b>Total (est)</b>	<b>Share</b>
NW Alabama	458,100	38.4%
Huntsville/NE AL	100,000	8.4%
Birmingham/Tus	75,700	6.3%
Memphis/MS	24,100	2.0%
Nashville/Mid TN	28,600	2.4%
<b>Sub-Total</b>	<b>686,500</b>	<b>57.5%</b>
Other/Foreign	507,000	42.5%
<b>TOTAL</b>	<b>1,193,500</b>	<b>100.0%</b>
<b>Sources:</b>	Attraction managers, web sites, and Randall Gross / Development Economics.	

### G3. Heritage Tourism Market Potentials

#### Section Overview

Section 3 of the market assessment provides findings from a projection of market potentials for heritage tourism attractions in the MSNHA. A demographic analysis was conducted for core travel markets for the MSNHA in terms of age, education, income and other factors. Demand for heritage tourism is forecasted based in part on participation rates for various types of heritage attractions. The potential for increased heritage tourism within the MSNHA is then forecasted based on the area’s capture of regional demand. Key opportunities for growth and expansion of heritage tourism in the area are identified based on the findings from this analysis.

#### Summary of Key Findings

Cultural and heritage tourism audiences are generally better educated, more affluent, and have “higher expectations” for travel experiences that are pleasurable and educational at the same time.

Authenticity is a key for capturing these potential heritage tourism audiences. Heritage tourists spend more money than other types of tourists (\$623 versus \$457 by other travelers per average trip). They also travel longer durations, at 5.2 nights on average versus 3.4 nights for other types of travelers.

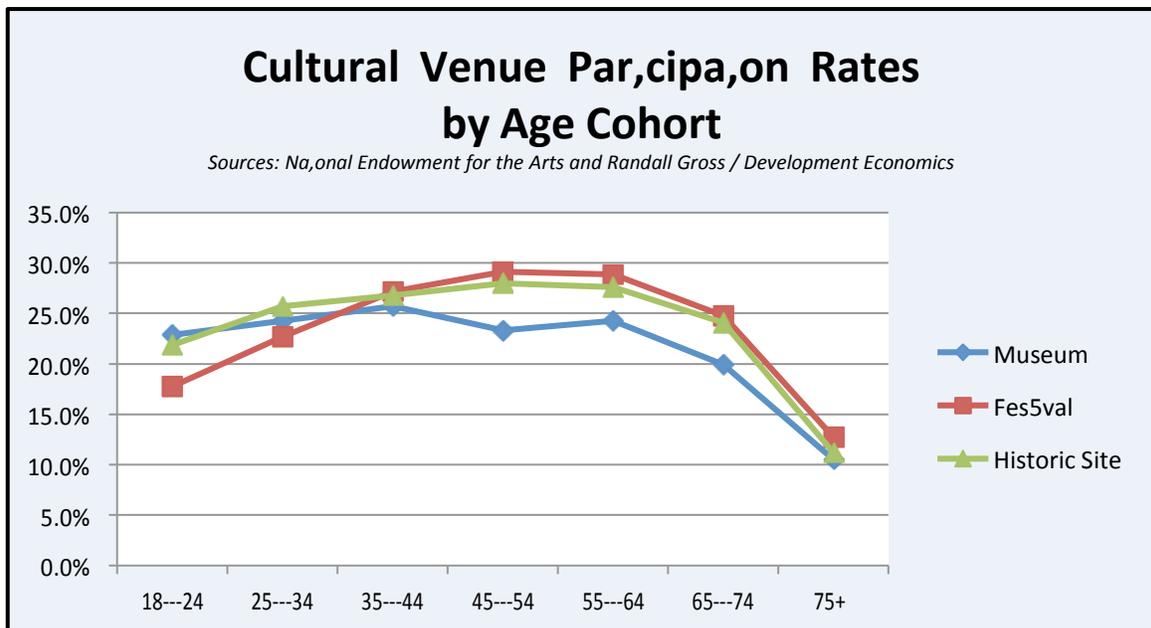
Core audience markets for the MSNHA include northwest Alabama, Huntsville, Birmingham, Nashville and Memphis. However, nearly 50% of attendance would also be generated by visitors from outside of these core markets, including a growing base of foreign tourists. The MSNHA museum audience, forecasted at 160,000, could support potential for another 30,000 to 40,000 square feet of museum space within the next five years. The area can also expect historic site audience potential of 188,000 people and festival audience potential of more than 300,000 people.

### Demographics

- The population of the MSNHA market base was nearly 5.2 million in 2011 and is projected to increase to 5.4 million by 2016. The largest core market is the Nashville Metropolitan Area, with about 1.6 million people.
- The adult population within these core markets will increase by 4.8% by 2016. Population within the 25 to 34 and 45 to 54 age cohorts will decline, but there will be rapid population growth among age cohorts from 55 and above.
- While Northwest Alabama has a higher share of residents with less than a high school education at 18.5% versus 14.7% in the U.S. as a whole, the Huntsville area has a relatively high percentage of college-educated residents because of the technology base.
- The average education level of residents of the MSNHA's core markets is increasing over time.
- Earnings in the core markets range from \$17,540 for those with less than a high school education to more than \$57,500 for those with a post-graduate degree.

### Culture & Heritage Venue Participation Rates

- Participation rates for culture and heritage venues peak for those aged 45 to 64, but are generally flat for most age cohorts until age 74, when participation rates are significantly lower than for younger adults.
- The participation rate for those with less than a high school degree is less than 10% within the core markets. By comparison, participation rates increase to nearly 40% for those with a college degree and 50% for those with a post-graduate degree.
- Because income levels are highly correlated with educational attainment, it is not surprising that participation rates also increase with incomes.
- Overall, participation rates have declined for all types of cultural activities and heritage venues over the past 10 to 15 years. Some of this decrease occurred as a result of economic conditions, but some is also due to competition from other activities, such as electronic media.



### Audience Forecasts & Potentials

Forecasts and potentials summarized below have been organized by the subjects of museums, festivals and historic sites.

*Museums*

- The existing museum audience of 1,987,000 is expected to increase by only about 14,000 (0.7%) by 2016.
- Science/industry and art museums account for the largest share of the museum audience in the core markets. Not only do history museums have a smaller audience, they will grow at a slower pace than those for art and science/industry museums.
- The MSNHA has potential to attract an audience of up to 160,000 in 2016, including 65,000 for history museums, 42,000 for science/industry museums, 28,000 for art museums, and 22,000 for American Indian museums.
- The fastest growth in audience support would be for American Indian museums, followed by science/industry, then art/design. History museums are expected to growth by about 5% over the next five years, slower growth that other types of museums.
- After accounting for existing museums, the museum space potential translates into roughly 32,000 square feet of net demand, including up to 16,300 square feet for American Indian museums, 7,400 square feet for science/industry, 5,400 square feet for history, and 2,500 square feet for art/design.

<b>Table 19. MUSEUM SPACE POTENTIAL, MUSCLE SHOALS NHA, 2016</b>		
<b>Museum Type</b>	<b>Attend</b>	<b>Space (SF)</b>
History	64,900	26,600
Amer. Indian	22,100	18,600
Science & Ind.	41,900	20,700
Art/Design	27,900	10,900
<b>TOTAL</b>	<b>156,800</b>	<b>76,800</b>
<b>Source:</b>	Randall Gross / Development Economics.	

*Festivals*

- The festival audience totals nearly 2.1 million in 2011, increasing to about 2.2 million by 2016.
- The MSNHA could capture a festival audience of 302,500, an increase expected by 2016 of 10.5%. Nashville, Huntsville and other parts of the country will generate the fastest growth in festival-goers captured by the MSNHA.
- Festival audience growth within Northwest Alabama will be relatively stagnant as compared with audience growth generated by other core markets and other areas of the country.

*Historic Sites*

- The audience for historic sites was estimated to total 2.14 million in 2011 and is expected to increase by approximately 10,000 to 2.15 million by 2016.
- The audience for historic sites is likely to decline in most of the core markets for the MSNHA, but overall audience growth can outweigh the decrease in participation in higher-growth markets.
- The MSNHA could capture audience support totaling 188,000 by 2016. Of this, nearly 55,000 would be generated by the local, Northwest Alabama market. An audience of more than 100,000 would be generated from outside of the core markets, throughout the U.S., and abroad (see chart below).

<b>Table 21. HISTORIC SITE AUDIENCE POTENTIAL, CORE MARKETS, MUSCLE SHOALS NATIONAL HERITAGE AREA, 2011-2016</b>				
<b>Market</b>	<b>2011</b>	<b>2016</b>	<b>2011-2016 Forecast</b>	
			<b>Number</b>	<b>Percent</b>
NW Alabama	56,907	54,888	(2,020)	-3.5%
Huntsville	13,732	13,199	(533)	-3.9%
Birmingham	6,705	6,548	(157)	-2.3%
Memphis	2,437	2,396	(41)	-1.7%
Nashville	6,471	6,616	145	2.2%
Other/Foreign	91,618	104,255	12,638	13.8%
<b>TOTAL</b>	<b>177,870</b>	<b>187,901</b>	<b>10,031</b>	<b>5.6%</b>
<b>Sources:</b>	Randall Gross /Development Economics.			

#### **G4. Program & Project Concepts**

While the Market Assessment report that comprises Appendix F of this Background Study includes proposed concepts for programming and projects for the MSNHA, the content of that report section will be integrated into later parts of this Management Plan when it shifts from a research and analysis context to a planning context.

# **TABLE OF CONTENTS**

## **Appendices**

Muscle Shoals National Heritage Area Management Plan

### **BACKGROUND REPORT**

- A. MSNHA Federal Legislation
- B. MSNHA Feasibility Study
- C. Stakeholders List & Meeting Summaries
- D. Natural Resources Inventory
- E. Cultural Resources Inventory
- F. Economic & Market Assessment
- G. Categorical Exclusion Report
- H. Preparers & Participants

**APPENDIX A**  
**Federal Legislation Establishing the**  
**Muscle Shoals National Heritage Area**

(6) diminishes the authority of the State to manage fish and wildlife, including the regulation of fishing and hunting within the Heritage Area;

(7) creates any liability, or affects any liability under any other law, of any private property owner with respect to any person injured on the private property;

(8) restricts an Indian tribe from protecting cultural or religious sites on tribal land; or

(9) diminishes the trust responsibilities of government-to-government obligations of the United States of any federally recognized Indian tribe.

(h) Authorization of Appropriations-

(1) IN GENERAL- There is authorized to be appropriated to carry out this section \$10,000,000, of which not more than \$1,000,000 may be made available for any fiscal year.

(2) COST-SHARING REQUIREMENT-

(A) IN GENERAL- The Federal share of the total cost of any activity under this section shall be not more than 50 percent.

(B) FORM- The non-Federal contribution--

(i) shall be from non-Federal sources; and

(ii) may be in the form of in-kind contributions of goods or services fairly valued.

(i) Termination of Financial Assistance- The authority of the Secretary to provide financial assistance under this section terminates on the date that is 15 years after the date of enactment of this Act.

SEC. 8009. MUSCLE SHOALS NATIONAL HERITAGE AREA, ALABAMA.

(a) Purposes- The purposes of this section are--

(1) to preserve, support, conserve, and interpret the legacy of the region represented by the Heritage Area as described in the feasibility study prepared by the National Park Service;

(2) to promote heritage, cultural, and recreational tourism, and to develop educational and cultural programs for visitors and the general public;

(3) to recognize and interpret important events and geographic locations representing key developments in the growth of the United States,

=ncluding the Native American, Colonial American, European American, and =frican American heritage;

(4) to recognize and interpret the manner by which the distinctive = geography of the region has shaped the development of the =ettlement, defense, transportation, commerce, and culture of the =egion;

(5) to provide a cooperative management framework to foster a =lose working relationship with all levels of government, the private =ector, and the local communities in the region to identify, preserve, =nterpret, and develop the historical, cultural, scenic, and natural resources of =he region for the educational and inspirational benefit of current and =uture generations; and

(6) to provide appropriate linkages between units of the National =ark System and communities, governments, and organizations within the =eritage Area.

(b) Definitions- In this section:

(1) HERITAGE AREA- The term ` Heritage Area' means the Muscle =hoals National Heritage Area established by subsection (c)(1).

(2) LOCAL COORDINATING ENTITY- The term ` local coordinating =ntity' means the Muscle Shoals Regional Center, the local coordinating =ntity for the Heritage Area designated by subsection (c)(4).

(3) MANAGEMENT PLAN- The term ` management plan' means the plan for =he Heritage Area required under subsection (d)(1)(A).

(4) MAP- The term ` map' means the map entitled ` Muscle Shoals =ational Heritage Area', numbered T08/80,000, and dated October =007.

(5) STATE- The term ` State' means the State of Alabama.

(c) Establishment-

(1) IN GENERAL- There is established the Muscle Shoals National =eritage Area in the State.

(2) BOUNDARIES- The Heritage Area shall be comprised of the =ollowing areas, as depicted on the map:

(A) The Counties of Colbert, Franklin, Lauderdale, Lawrence, Limestone, and Morgan, Alabama.

(B) The Wilson Dam.

(C) The Handy Home.

(D) The birthplace of Helen Keller.

(3) AVAILABILITY MAP- The map shall be on file and available for public inspection in the appropriate offices of the National Park Service and the local coordinating entity.

(4) LOCAL COORDINATING ENTITY- The Muscle Shoals Regional Center shall be the local coordinating entity for the Heritage Area.

(d) Duties and Authorities of Local Coordinating Entity-

(1) DUTIES OF THE LOCAL COORDINATING ENTITY- To further the purposes of the Heritage Area, the local coordinating entity shall--

(A) prepare, and submit to the Secretary, in accordance with subsection (e), a management plan for the Heritage Area;

(B) submit an annual report to the Secretary for each fiscal year for which the local coordinating entity receives Federal funds under this section specifying--

(i) the accomplishments of the local coordinating entity;

(ii) the expenses and income of the local coordinating entity;

(iii) the amounts and sources of matching funds;

(iv) the amounts leveraged with Federal funds and sources of the leveraged funds; and

(v) grants made to any other entities during the fiscal year;

(C) make available for audit for each fiscal year for which the local coordinating entity receives Federal funds under this section, all information pertaining to the expenditure of the funds and any matching funds;

(D) encourage, by appropriate means, economic development that is consistent with the purposes of the Heritage Area; and

(E) serve as a catalyst for the implementation of projects and programs among diverse partners in the Heritage Area.

(2) AUTHORITIES- The local coordinating entity may, subject to the prior approval of the Secretary, for the purposes of preparing and implementing the management plan, use Federal funds made available under this section to--

(A) make grants to the State, political subdivisions of the State, nonprofit organizations, and other persons;

(B) enter into cooperative agreements with, or provide technical assistance to, the State, political subdivisions of the State, nonprofit organizations, Federal agencies, and other interested parties;

(C) hire and compensate staff, including individuals with expertise in --

(i) natural, historical, cultural, educational, scenic, and recreational resource conservation;

(ii) economic and community development; and

(iii) heritage planning;

(D) obtain funds or services from any source, including funds and services provided under any other Federal law or program;

(E) contract for goods or services; and

(F) support activities of partners and any other activities that further the purposes of the Heritage Area and are consistent with the approved management plan.

(3) PROHIBITION ON ACQUISITION OF REAL PROPERTY- The local coordinating entity may not use Federal funds received under this section to acquire any interest in real property.

(e) Management Plan-

(1) IN GENERAL- Not later than 3 years after the date on which funds are made available to develop the management plan, the local coordinating entity shall submit to the Secretary for approval a proposed management plan for the Heritage Area.

(2) REQUIREMENTS- The management plan for the Heritage Area shall--

(A) describe comprehensive policies, goals, strategies, and recommendations for telling the story of the heritage of the area covered by the Heritage Area and encouraging long-term resource protection, enhancement, interpretation, funding, management, and development of the Heritage Area;

(B) include a description of actions and commitments that Federal, State, tribal, and local governments, private organizations, and citizens plan to take to protect, enhance, interpret, fund, manage, and develop the natural, historic, cultural, educational, scenic, and recreational resources of the Heritage Area;

(C) specify existing and potential sources of funding or economic development strategies to protect, enhance, interpret, fund, manage, and develop the Heritage Area;

(D) include an inventory of the natural, historic, cultural, educational, scenic, and recreational resources of the Heritage Area relating to the stories and themes of the Heritage Area that should be protected, enhanced, interpreted, managed, funded, or developed;

(E) recommend policies and strategies for resource management, including the development of intergovernmental and interagency agreements to protect, enhance, interpret, fund, manage, and develop the natural, historic, cultural, educational, scenic, and recreational resources of the Heritage Area;

(F) describe a program for implementation of the management plan, including--

(i) performance goals;

(ii) plans for resource protection, enhancement, interpretation, funding, management, and development; and

(iii) specific commitments for implementation that have been made by the local coordinating entity or any Federal, State, tribal, or local government agency, organization, business, or individual;

(G) include an analysis of, and recommendations for, ways in which Federal, State, tribal, and local programs may best be coordinated (including the role of the National Park Service and other Federal agencies associated with the Heritage Area) to further the purposes of this section; and

(H) include a business plan that--

(i) describes the role, operation, financing, and functions of the local coordinating entity and of each of the major activities described in the management plan; and

(ii) provides adequate assurances that the local coordinating entity has the partnerships and financial and other resources necessary to implement the management plan for the Heritage Area.

(3) TERMINATION OF FUNDING- If the management plan is not submitted to the Secretary by the date that is 3 years after the date on which funds are first made available to develop the management plan,

the local coordinating entity shall not qualify for additional financial assistance under this section until the management plan is submitted to, and approved by, the Secretary.

(4) APPROVAL OF MANAGEMENT PLAN-

(A) REVIEW- Not later than 180 days after the date on which the Secretary receives the management plan, the Secretary shall approve or disapprove the management plan.

(B) CONSULTATION REQUIRED- The Secretary shall consult with the Governor of the State in which the Heritage Area is located before approving the management plan.

(C) CRITERIA FOR APPROVAL- In determining whether to approve the management plan, the Secretary shall consider the following:

(i) the local coordinating entity represents the diverse interests of the Heritage Area, including Federal, State, tribal, and local governments, natural and historic resource protection organizations, educational institutions, businesses, community residents, recreational organizations, and private property owners;

(ii) the local coordinating entity--

(I) has afforded adequate opportunity for public and Federal, State, tribal, and local governmental involvement (including through workshops and public meetings) in the preparation of the management plan; and

(II) provides for at least semiannual public meetings to ensure adequate implementation of the management plan;

(iii) the resource protection, enhancement, interpretation, funding, management, and development strategies described in the management plan, if implemented, would adequately protect, enhance, interpret, fund, manage, and develop the natural, historic, cultural, scenic, and recreational resources of the Heritage Area;

(iv) the management plan would not adversely affect any activities authorized on Federal land under applicable laws or land use plans;

(v) the Secretary has received adequate assurances from the appropriate State, tribal, and local officials whose support is

needed to ensure the effective implementation of the State, tribal, and local aspects of the management plan;

(vi) the local coordinating entity has demonstrated the financial capability, in partnership with others, to carry out the management plan; and

(vii) the management plan demonstrates partnerships among the local coordinating entity, Federal, State, tribal, and local governments, regional planning organizations, nonprofit organizations, and private sector parties for implementation of the management plan.

(D) DISAPPROVAL-

(i) IN GENERAL- If the Secretary disapproves the management plan, the Secretary--

(I) shall advise the local coordinating entity in writing of the reasons for the disapproval; and

(II) may make recommendations to the local coordinating entity for revisions to the management plan.

(ii) DEADLINE- Not later than 180 days after receiving a revised management plan, the Secretary shall approve or disapprove the revised management plan.

(E) AMENDMENTS-

(i) IN GENERAL- An amendment to the management plan that substantially alters the purposes of the Heritage Area shall be reviewed by the Secretary and approved or disapproved in the same manner as the original management plan.

(ii) IMPLEMENTATION- The local coordinating entity shall not use Federal funds authorized by this section to implement an amendment to the management plan until the Secretary approves the amendment.

(F) AUTHORITIES- The Secretary may--

(i) provide technical assistance under the authority of this section for the development and implementation of the management plan; and

(ii) enter into cooperative agreements with interested parties to carry out this section.

(f) Duties and Authorities of the Secretary-

(1) TECHNICAL AND FINANCIAL ASSISTANCE-

(A) IN GENERAL- On the request of the local coordinating entity, the Secretary may provide technical and financial assistance, on a reimbursable or nonreimbursable basis (as determined by the Secretary), to the local coordinating entity to develop and implement the management plan.

(B) COOPERATIVE AGREEMENTS- The Secretary may enter into cooperative agreements with the local coordinating entity and other public or private entities to provide technical or financial assistance under subparagraph (A).

(2) EVALUATION; REPORT-

(A) IN GENERAL- Not later than 3 years before the date on which authority for Federal funding terminates for the Heritage Area under subsection (j), the Secretary shall--

(i) conduct an evaluation of the accomplishments of the Heritage Area; and

(ii) prepare a report with recommendations for the future role of the National Park Service, if any, with respect to the Heritage Area, in accordance with subparagraph (C).

(B) EVALUATION- An evaluation conducted under subparagraph (A) (i) shall--

(i) assess the progress of the local coordinating entity with respect to--

(I) accomplishing the purposes of this section for the Heritage Area; and

(II) achieving the goals and objectives of the approved management plan for the Heritage Area;

(ii) analyze the Federal, State, tribal, local, and private investments in the Heritage Area to determine the leverage and impact of the investments; and

(iii) review the management structure, partnership relationships, and funding of the Heritage Area for purposes of identifying the critical components for sustainability of the Heritage Area.

## (C) REPORT-

(i) IN GENERAL- Based on the evaluation conducted under subparagraph (A)(i), the Secretary shall prepare a report that includes recommendations for the future role of the National Park Service, if any, with respect to the Heritage Area.

(ii) REQUIRED ANALYSIS- If the report prepared under this subparagraph recommends that Federal funding for the Heritage Area be reauthorized, the report shall include an analysis of--

(I) ways in which Federal funding for the Heritage Area may be reduced or eliminated; and

(II) the appropriate time period necessary to achieve the recommended reduction or elimination.

(iii) SUBMISSION TO CONGRESS- On completion of a report under this subparagraph, the Secretary shall submit the report to--

(I) the Committee on Energy and Natural Resources of the Senate; and

(II) the Committee on Natural Resources of the House of Representatives.

## (g) Relationship to Other Federal Agencies-

(1) IN GENERAL- Nothing in this section affects the authority of a Federal agency to provide technical or financial assistance under any other law.

(2) CONSULTATION AND COORDINATION- To the maximum extent practicable, the head of any Federal agency planning to conduct activities that may have an impact on the Heritage Area is encouraged to consult and coordinate the activities with the Secretary and the local coordinating entity to the maximum extent practicable.

(3) OTHER FEDERAL AGENCIES- Nothing in this section--

(A) modifies, alters, or amends any laws (including regulations) authorizing a Federal agency to manage Federal land under the jurisdiction of the Federal agency;

(B) limits the discretion of a Federal land manager to implement an approved land use plan within the boundaries of the Heritage Area; or

(C) modifies, alters, or amends any authorized use of Federal land and under the jurisdiction of a Federal agency.

(h) Property Owners and Regulatory Protections- Nothing in this section--

(1) abridges the rights of any owner of public or private land, including the right to refrain from participating in any plan, project, program, or activity conducted within the Heritage Area;

(2) requires any property owner to--

(A) permit public access (including Federal, tribal, State, or local government access) to the property; or

(B) modify any provisions of Federal, tribal, State, or local law with regard to public access or use of private land;

(3) alters any duly adopted land use regulations, approved land use plan, or any other regulatory authority of any Federal, State, or local agency, or tribal government;

(4) conveys any land use or other regulatory authority to the local coordinating entity;

(5) authorizes or implies the reservation or appropriation of water or water rights;

(6) diminishes the authority of the State to manage fish and wildlife, including the regulation of fishing and hunting within the Heritage Area; or

(7) creates any liability, or affects any liability under any other law, of any private property owner with respect to any person injured on the private property.

(i) Authorization of Appropriations-

(1) IN GENERAL- There is authorized to be appropriated to carry out this section \$10,000,000, of which not more than \$1,000,000 may be made available for any fiscal year.

(2) AVAILABILITY- Funds made available under paragraph (1) shall remain available until expended.

(3) COST-SHARING REQUIREMENT-

(A) IN GENERAL- The Federal share of the total cost of any activity under this section shall be not more than 50 percent.

(B) FORM- The non-Federal contribution may be in the form of =n-kind contributions of goods or services fairly valued.

(4) USE OF FEDERAL FUNDS FROM OTHER SOURCES- Nothing in this =ection precludes the local coordinating entity from using Federal funds =available under provisions of law other than this section for the purposes for =hich those funds were authorized.

(j) Termination of Effectiveness- The authority of the Secretary to provide financial assistance under this section terminates on the date =hat is 15 years after the date of enactment of this Act.

## SEC. 8010. KENAI MOUNTAINS-TURNAGAIN ARM NATIONAL HERITAGE AREA, =LASKA.

(a) Definitions- In this section:

(1) HERITAGE AREA- The term ` Heritage Area' means the Kenai Mountains-Turnagain Arm National Heritage Area established by =ubsection (b)(1).

(2) LOCAL COORDINATING ENTITY- The term ` local coordinating =ntity' means the Kenai Mountains-Turnagain Arm Corridor Communities Association.

(3) MANAGEMENT PLAN- The term ` management plan' means the plan =epared by the local coordinating entity for the Heritage Area that =pecifies actions, policies, strategies, performance goals, and =ecommendations to meet the goals of the Heritage Area, in accordance with this =ection.

(4) MAP- The term ` map' means the map entitled ` Proposed Kenai Mountains-Turnagain Arm NHA' and dated August 7, 2007.

(5) SECRETARY- The term ` Secretary' means the Secretary of the Interior.

(b) Designation of the Kenai Mountains-Turnagain Arm National =eritage Area

(1) ESTABLISHMENT- There is established the Kenai =ountains-Turnagain Arm National Heritage Area.

(2) BOUNDARIES- The Heritage Area shall be comprised of the land =n the Kenai Mountains and upper Turnagain Arm region, as generally =epicted on the map.

(3) AVAILABILITY OF MAP- The map shall be on file and available =or public inspection in--

**APPENDIX B**  
**MSNHA Feasibility Study Summary**



Muscle Shoals National Heritage Area  
Background Study

## Table of Contents

### Executive Summary -3

Chapter 1	Background and Study Approach -6
Chapter 2	The Affected Environment - 16
Chapter 3	The Muscle Shoals Story: Themes and Historical Contributions -21
Chapter 4	Evaluation of the Muscle Shoals Region According to Federal Criteria -39
Chapter 5	Management Alternatives -52
Chapter 6	Environmental Consequences -54
Chapter 7	Conclusions -59

### List of Figures

Figure 1	Early Map Showing the Muscle Shoals as Prominent Physical Feature (following p.7)
Figure 2	Counties in the Proposed Muscle Shoals National Heritage Area and Adjacent Affiliated Counties (following p. 9)
Figure 3	Municipalities in the Proposed Muscle Shoals National Heritage Area (following p. 9)
Figure 4	Muscle Shoals National Heritage Area Historic Sites (following p. 20)
Figure 5	1882 US Army Corps of Engineers Map of Portions of the Muscle Shoals Canal and Lock Engineering Progress (following p. 26)
Figure 6	Central Part of the Muscle Shoals Region Showing Tuscumbia and Decatur Railroad (following p. 29)

### List of Tables

Table 1	Selected Measures of Economic Conditions for MSNHA Counties - 19
Table 2	Selected Resources Capable of Interpretation -45
Table 3	Five-Year Revenue Projections -47
Table 4	Plans and Programs Related to Implementing the Muscle Shoals National Heritage Area – 48

### References -60

### Appendices

Appendix 1	Sample Agendas for Community Meetings -68
Appendix 2	Historical Population Trends for MSNHA Counties -69
Appendix 3	Historic Places Summary -70
Appendix 4	National Register of Historic Places -71
Appendix 5	Federally-listed Species by County, August 21, 2006 -73
Appendix 6	Parks, Public Lands and Recreational Resources -74
Appendix 7	Contributors, Readers, Advisors, and Working Group -79
Appendix 8	Traditions and Folklife -81

## Executive Summary

The Muscle Shoals National Heritage Area Feasibility Study was authorized by Public Law 107-348 to serve as a guide for the Secretary of the Interior and the Congress in the designation of the Muscle Shoals National Heritage Area.

The study has been conducted by the Muscle Shoals Regional Center at the University of North Alabama, in consultation with the National Park Service, following more than two-dozen community meetings throughout the region with an attendance in excess of 400 people.

The study identifies as the conceptual boundaries of the Muscle Shoals National Heritage Area the following counties in northwest Alabama: Colbert, Lauderdale, Franklin, Lawrence, Limestone and Morgan, all of which fall along the portion of the Tennessee River defined by the Muscle Shoals.

The Muscle Shoals National Heritage Area stories will be defined by the history and culture that evolved around the distinctive geological features on one of the nation's most majestic rivers, which at places in this region was only 1.5 feet deep. These rocky shoals created an impediment that has affected not only an entire region but the American story in distinctive and definable ways. The chapters in the Muscle Shoals story, which begin with mounds and mussels and continues into a modern day culture that is recognizable world-wide, has been written by a powerful river, prominent minds, and extraordinary examples of ingenuity. America's story has been enriched by the Muscle Shoals.

The Muscle Shoals story is woven around three primary themes

- *Mounds and Mussels: The Muscle Shoals Prehistory and Settlement.* This theme focuses on how the obstacles presented by the rocky shoals affected trade routes and ultimately America's settlement toward the southwest.

This facet of the Muscle Shoals early history focuses on the impact of the rocky shoals in the mighty Tennessee River extending some 80 miles from Brown's Ferry (Limestone and Morgan counties) to Waterloo (Colbert and Limestone counties) and tributaries (Franklin County). These thunderous shoals were the most dramatic single physical feature for hundreds of miles around. While the unique geology/geography created a hospitable environment flush with waterfowl, fish and game for Native Americans, as evidenced by some of the earliest human settlements in the Southeastern territories, it also presented an often-impassible obstacle to early European settlement. As America was settled in the 1700s and 1800s the rocky Muscle Shoals became a bottleneck in the use of an otherwise valuable 600-mile national inland waterway. As the nation grew and sought to protect itself, leaders in Washington acknowledged that these shoals presented serious problems to the nation's system of internal defense. As a

result of these and other early developments in our nation's history, generations of early adventurers, military leaders, politicians and entrepreneurs offered their talents to address solutions for the limitations presented by the river impediments, and to the opportunities they envisioned in the Muscle Shoals region. Over time the Muscle Shoals grew into a strategic crossroads of east-west and north-south trade and migration.

- *Harnessing the Mighty River: The Muscle Shoals in Times of War and Peace.* This theme presents a compelling story of the region's role in national defense and regional development epitomized by successfully building a system of canals, constructing Wilson Dam and establishing the Tennessee Valley Authority.

The massive obstacle to navigation, to settlement, and even to national defense that was the Muscle Shoals had to be tamed and harnessed. Applying early America's creative genius, grit and entrepreneurship, over a period of one hundred twenty-five years the nation poured some of its most inventive resources into the Muscle Shoals. The first frontier railroad west of the Alleghenies was built here. A series of canals were constructed to allow all-season boat travel around the shoals. Captain George Goethals (whose success here catapulted him into Panama Canal fame) created the longest steamboat canal in the world at the time at Muscle Shoals. One of his shoals canal locks was the highest ever attempted in the U.S. at the time. Faced with need for a secure source of nitrates for WW I, the U.S. Army Corps of Engineers began in 1916 to build locks and a dam at Muscle Shoals to generate hydropower for nitrate production. Wilson Dam was the largest masonry structure and largest dam in the world, and used the highest single lift lock in the world at that time. Challenged with the question of how best to use the dam several years after the war ended, President Franklin D. Roosevelt's legislation in 1933 creating the Tennessee Valley Authority was the signature piece in his New Deal. From the 1940s on through the 1980s, TVA's creative approach to integrated regional resource management based on an entire major watershed became a model used for development projects around the world

- *Music and Modern Times: The Muscle Shoals and the River that Sings.* The third theme relates the story about how the now legendary Muscle Shoals sound tradition emerged onto the world music stage.

Bubbling out of the wide expanses of river water in ancient times came the Native American legend of the singing river. The legend claims "that amidst the mighty roar of the Tennessee as it plunged over the rocks, reefs and... sandbars at the Muscle Shoals could be heard a sweetly singing voice from beneath its waters." Thus the folklore of the "river that sings" has a strong cultural legacy. Much later in the 1920s and 30s, native son W.C. Handy, the "Father of the Blues", published and popularized this woeful blues sound, unique to the world. Then through a blend of Scots-Irish and African slave music, a modern-day music industry developed in the 1950s that gave Muscle Shoals a new meaning to people the world over. Also born near the banks of the Tennessee River were Sam Phillips, the "Father of Rock and Roll", Buddy Killen, one of the world's leading music publishers, and dozens of songwriters and musicians, recording artists, and engineers, setting the stage for the area becoming known as the "Hit Recording Capital of the World."

The proposed Muscle Shoals National Heritage Area would be consistent with current and expected future patterns of economic activity in the region, helping diversify the aerospace and defense related economy of the eastern half and strengthening the evolving tourism and recreation-based economy of the western counties.

The study recommends that, upon designation, the Muscle Shoals Regional Center at the University of North Alabama (MSRCUNA) become the management entity. The MSRCUNA is a public service entity currently involved with other regional projects, especially the Roots of American Music Trail™. The music trail is viewed as an important mechanism to interpret the heritage area's Muscle Shoals music theme.

An environmental assessment concluded that designation as a National Heritage Area by Congress will have no impact on the natural or the built environments.

The study examines criteria as presented by the National Park Service under the definition of a National Heritage Area and finds that the Muscle Shoals meets those standards.

Following approval of the feasibility study by the Secretary of the Interior, and designation legislation passed by Congress and signed by the President, the management entity for the Muscle Shoals National Heritage Area will seek funding to prepare a management plan. The management entity will assemble an advisory board representative of the major public, non-profit and private sector stakeholders that will serve as a policy-making group to oversee the preparation of a management plan and other work of the heritage area. The management plan will specify actions, policies, strategies, performance goals and recommendations to implement the plans and programs of the Muscle Shoals National Heritage Area consistent with the authorizing legislation.

**APPENDIX C**  
**Stakeholders List & Meetings Summary**

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## SUMMARY OF MEETINGS

## **Task 1.0 – Public Officials & Public Kick-Off / Scoping Meetings Muscle Shoals National Heritage Area**

Revised – 7/18/11

The first formal meeting for this management planning project was between the MSNHA Steering Committee, the MSNHA director, National Park Service representative K. Lynn Berry, and the consulting Project Team's project manager. That meeting was held on April 20<sup>th</sup>, 2011 at 4:00 PM at the Florence-Lauderdale Library in Downtown Florence. The focus of that meeting was the overall management planning scope and schedule, the public input process, NEPA requirements, and logistical issues. The following meetings were targeted to key stakeholders and the general public:

### **PUBLIC OFFICIALS MEETINGS**

Although these meetings were not included in the scope of work for the Management Plan, it was determined early into the planning project that it would be advisable to hold a series of meetings with public officials who might not be familiar with the MSNHA prior to holding public meetings. A key goal was to avoid officials being surprised about the project after learning of the public meetings, and to answer any questions they might have prior to broader public forums. Meetings were scheduled for five of the six counties within the MSNHA, as many of Franklin County's officials were unavailable during this timeframe and will be scheduled for another time. Examples of public official types who attended the meetings include mayors, city council members, county administrators and commissioners, planning directors, downtown directors, CVB leaders, and Chamber of Commerce leaders. Below is a summary of the meeting results:

#### **Public Officials Meeting #1: Lawrence County**

April 25<sup>th</sup>, 2011 – 10:00 AM  
Moulton City Hall

Key comments from the attendees included the following:

- "The Big Tree" – reportedly the largest tree in the state, is located in Bankhead National Forest in Lawrence County. It needs to be publicized and made more readily accessible.
- A nice hotel is needed in the Moulton area.
- Birding trails are a potentially big business for the MSNHA.
- Agri-tourism has strong potential for the MSNHA.
- Archeological excavations should be conducted in a manner that allows the public to observe and perhaps even be actively involved.
- A Civil War reenactment camp is one possibility for a living history attraction.
- Courtland's history has a strong connection with the Goliad Massacre (an 1836 prelude to the War with Mexico) and reenactors representing that era perform living history in Courtland every few years.

#### **Public Officials Meeting #2: Morgan County**

April 25<sup>th</sup>, 2011 – 1:00 PM  
Decatur Chamber of Commerce

Key comments from the attendees included the following:

- A key concern at the meeting's start was what would be required of the local governments as far as funding. It was clarified that there were no specific funding requirements from local governments,

although the MSNHA's funding requires a minimum 50% non-federal matches, which can include in-kind services.

- There was also an initial concern that the MSNHA might somehow compete with CVBs, but those concerns appeared to be alleviated by a further explanation of the Heritage Area's intent and anticipated function and partnerships.
- Athens and Decatur will be critical "hooks" to getting visitors off of I-65 and into the MSNHA. They will be gateways to the Heritage Area.

### **Public Officials Meeting #3: Limestone County**

April 25<sup>th</sup>, 2011 – 3:00 PM

Limestone Tourism Office - Athens

Key comments from the attendees included the following:

- Questions were raised about the future of federal funding for the MSNHA given the economy and federal spending cuts.
- There were concerns about the ability of local funding matches to be raised.
- Questions were raised regarding the name of the Heritage Area because some initially believed that it overemphasized the Muscle Shoals community, as opposed to the region (as intended). It was also explained that the name was mandated by the federal legislation creating the Heritage Area.
- The idea of a designated heritage trail was discussed, which might extend from the Space Center in Huntsville (just beyond the MSNHA boundaries) west to the "Tri-Cities."
- It was noted that relatively wealthy Cherokees lived in the area prior to the Trial of Tears.
- It was suggested that the MSNHA should approach TVA for potential corporate sponsorship.
- Part of TVA's mission is recreational development and they own a substantial amount of riverfront property.

### **Public Officials Meeting #4: Lauderdale County**

April 28<sup>th</sup>, 2011 – 10:00 AM

Shoals Marriott Conference Center - Florence

This meeting occurred the morning after tornados ravaged the region and state. Because most local officials were tied up with addressing the aftermath, only one was able to show up briefly. The conversation focused primarily on the damage caused by the storms, and no substantive discussion occurred regarding the MSNHA.

### **Public Officials Meeting #5: Colbert County**

April 28<sup>th</sup>, 2011 – 3:00 PM

Alabama Music Hall of Fame Banquet Room - Tuscumbia

Because of the weather event noted above regarding meeting # 4, only one attended participated in this meeting – Bill Shoemaker, the Mayor of Tuscumbia. Nevertheless, a lengthy discussion occurred regarding the MSNHA, particularly regarding the area's rich history. Key comments included the following:

- The Franklin County Historical Society (neighboring county to the immediate south) has roughly 175 members.
- Tuscumbia is converting their historic post office into their City Hall.
- In 1817, the Dixon family left East Tennessee on a flat boat and traveled down the river where they befriended the Native Americans and established Tuscumbia. Alabama became a state in 1819.
- John Coffey prepared the plot of Tuscumbia in 1820.
- The Jackson Military Road, initiated by Andrew Jackson in 1820, is now Old US 43.

- The state's oldest continuously operated store is located at 6<sup>th</sup> and Main in Downtown Tuscumbia.
- Tuscumbia's springs are reportedly the largest in the US and the 7<sup>th</sup> largest in the world (based on the volume of spring water produced). With Tuscumbia's new water filtration system, they will reportedly have the purest water in the country.
- During a downtown streetscape project an 1830s stone culvert was discovered at 5<sup>th</sup> and Dixon. It is made of limestone with a brick bottom, and it was preserved in place by the City.
- George Washington Geothals was the head engineer who designed the Muscle Shoals canal and the Riverton Lock at Colbert Shoals during the 1890s. After serving in the Spanish American War he was appointed by President Theodore Roosevelt to oversee the design and construction of the Panama Canal in 1907.
- TVA has a collection of historic photos and their archivist should be contacted for our planning project.
- The railroad through this area opened in 1858. In 1867, Colbert County was carved out of Franklin County to become its own separate county.
- The idea of an excursion train between Tuscumbia and Decatur has been discussed in the past. Tuscumbia is about to construct a historically-base roundhouse using federal transportation enhancement funds. It will be located by the historic railroad station downtown and will house a steam engine.
- An annual Native American festival tied to the Trail of Tears occurs annually in Tuscumbia. It occurs there because it was the location where the Native Americans boarded steam boats during the Trail of Tears and they were reportedly treated well by the locals.
- There are plans for a Native American cultural center to be constructed at Tuscumbia Landing in Sheffield and it will be federally-funded by the NPS Trails program. The NPS is sponsoring a planning charrette for the center sometime this summer.
- Cold Water is a name historically associated with the springs in Tuscumbia. The Native American word is "Oka Kapssa"
- The Children's Museum of the Shoals, located in Florence, has received \$60,000 from the federal government to interpret a Native American story of a woman who walked from Oklahoma back to the Muscle Shoals area.
- Dr. Chris Maynard, a history professor at UNA, and his students were noted as good resources for historic research related to the MSNHA.
- A good source of history on the Tennessee River is a book entitled "The Tennessee" by a Vanderbilt professor named Davis.

## **PUBLIC KICK-OFF / SCOPING MEETINGS**

In accordance with Task 1.4 of this projects scope of work, two public scoping meetings were held in April 2011 to both inform the public about the project and to solicit their input regarding issues of concern. To solicit even further public input, a third public scoping meeting was held in June 2011 in Moulton. In particular, participants were asked at all three meetings to identify any potential environmental impacts that the Heritage Area's development might generate in light of the federal NEPA requirements. Below is a summary of key comments from both meetings:

### **Public Kick-Off & Scoping Meeting #1**

April 25, 2011 – 5:00 PM

Limestone County Event Center - Athens

Key comments from the attendees included the following:

#### General Comments

- The meeting started with a discussion of the required funding match that is required for the Heritage Area's federal funding.

- The Alabama Land Trust would be a natural partner for the MSNHA (there is also a separate Land Trust of North Alabama)
- More access to the river is needed. The USDA's Resource Conservation & Development program (RCD) has reportedly done a study on this issue.
- Multiple unconnected Heritage Trails need to be connected.
- Limestone County has 89 miles of biking and walking trails. Some (or all?) of the trails have been created through a Rails-to-Trails program. Cyclists can cross the river on the Patton Island Bridge.
- Highway signage will be needed for the Heritage Area.
- One issue that might be considered by the MSNHA is what did TVA flood (historic and archeological resources?).
- Trinity School Project (an African-American school in Limestone County)
- Limestone County is reportedly the 5<sup>th</sup> healthiest in the state.

#### Environmental Impact Concerns

- One environmental impact concern is potential litter in and along the river. TVA should consider utilizing prisoners to clean the river.
- Endangered fish in the Tennessee River include the Pygmy Sunfish and Tuscumbia Darter. Mussels are also reportedly endangered. There are thought to also be endangered Eastern Mountain Lions within the study area. TVA has done studies on endangered species.

#### **Public Kick-Off & Scoping Meeting #2**

April 28, 2011 – 5:00 PM

Alabama Music Hall of Fame Banquet Room - Tuscumbia

Key comments from the attendees included the following:

#### General Comments

- Jackson's Military Road (initiated by Andrew Jackson in 1820) is now Old US 43. It could be improved with a walking/biking trail.
- Key historic attractions in Tuscumbia include the restored stage coach stop, the railroad station, and Spring Park.
- A Rails-to-Trails program is currently active.
- The issue of potential "Partnering" sites and "Emerging" sites tied to minimum standards and funding was discussed.
- A movie based on the area's Native American and Trail of Tears history will be filmed in the area next year. It will benefit the area economically both because of the publicity (long term) and the expenditures made by the film makers while here (short term).
- UNA needs to start a "blue collar movie making" program to teach associated trades such as set building.
- "The Big Tree" in Bankhead National Forest is a potential tourist attraction.
- Forks of the Cypress – the remaining columns of an 1830 Greek Revival House near Florence that burned in 1966 – is an important historic site.
- Sweetwater – an 1835 federal style house that was part of a huge plantation - is another important site. Home to a former governor, it is owned by a woman in Atlanta and includes roughly 35 acres. It's located in Florence and is vacant, although the owner is allowing a small local group (represented at this meeting) to work on the house and perform living history on the site.
- The Lagrange Rock Shelter in Colbert County is a prehistory habitation site that has been excavated by the University of Alabama.
- Muscle Shoals has strong international name recognition.

#### Environmental Impact Concerns

There were no specific comments regarding potential environmental impacts.

### **Public Kick-Off & Scoping Meeting #3**

June 16, 2011 – 5:00 PM

Moulton City Hall - Mouton

Key comments from the attendees included the following:

#### General Comments

- There was a question about how conservation easements might be obtained for areas to be preserved? The consultant project team indicated that there are already multiple land trusts active in the area that accept conservation easements, so a private agreement would be struck between such a land trust and a willing property owner. It was emphasized that easements are not a regulatory tool.
- A question was raised about the potential to utilize Transfer of Development Rights (TDR) as a means of preserving land. It was answered that TDR is a relatively complex regulatory tool that is not used by any local governments within the Heritage Area that the consultant team is aware of. The process of “sending” and “receiving” areas was described, and examples of places where TDR is utilized were cited (New Jersey Pine Barrens, etc.).
- One meeting participant asked whether the MHNHA would explore the concept of urban growth boundaries? The consulting project team noted that urban growth boundaries are typically applied by a local government or a regional planning agency with the necessary authority and the concept was explained, along of examples of its use (Portland, OR, etc.). It was stated that it is unlikely that the issue would come up within the context of the Heritage Area unless it were specifically raised and there was sufficient interest in exploring the concept. However, the MHNHA would have no role in initiating or implementing such a program in any scenario.
- It was asked how the Jesse Owens site might be able to get a billboard on the interstate? It was explained that a billboard would require an individual or entity to lease the space, although a small roadside sign might be free and available from the State (brown colored sign for cultural sites).

#### Environmental Impact Concerns

There were no specific comments regarding potential environmental impacts.

**APPENDIX D**  
**Natural Resources Inventory**

<b><u>LAND RESOURCES</u></b>					
<b>NAME</b>	<b>TYPE</b>	<b>COUNTY</b>	<b>COMMUNITY</b>	<b>REMARKS</b>	<b>MAP GRID #</b>
Albemarle	Heritage Farm	Lawrence	Courtland		
Austin Place	Century/Heritage Farm	Lauderdale	Florence		
Bachelor Hall Farm	Century Farm	Limestone	Athens		
Bankhead National Forest	National Forest	Lawrence	South of Moulton	181,230 acres; Alabama's largest National Forest; known as "The Land of a Thousand Waterfalls;" premier sites for ancient petroglyphs	
Barnett-Russell Farm	Century Farm	Colbert			
Bear Creek Lakes	TVA land	Franklin	Russellville	System of four lakes and their surrounding woodlands; 284 miles of shoreline and 9,178 acres of shoreland	
Black Warrior Wildlife Management Area	Wildlife Conservation Area	Lawrence/ Winston	South of Moulton	91,263 acres	
Bragwell Farm	Century Farm	Franklin	Spruce Pine		
Bullard Farm	Century/Heritage Farm	Morgan	Decatur		

Caledonia Robert Farm	Century Farm	Limestone			
Cane Creek Canyon Nature Preserve	Private Sanctuary	Colbert	South of Tuscumbia	423-acre preserve; trails with waterfalls, canyon, and wildflowers	
Clarence Malone Place	Century/Heritage Farm	Franklin	Red Bay		
Craig Farm	Century/Heritage Farm	Lawrence	Town Creek		
Davis/Hutcheson Family Farm	Century/Heritage Farm	Franklin	Phil Campbell		
Edward Christopher Farm	Century/Heritage Farm	Limestone	Lester		
Elk River Lodge State Park	State Park	Limestone	Cairo	Cove off of the Elk River with a group lodge	
Ernest Thorn Farms	Century Farm	Franklin	Red Bay		
Flurnoy Ezzell Place	Century Farm	Franklin	Russellville		
Freedom Hills Wildlife Management Area	Wildlife Conservation Area	Colbert	Cherokee	31,734 acra	
Garrison Ezzell Farm	Century Farm	Colbert			
Hammond Farm	Century/Heritage Farm	Lauderdale	Lexington		
Hannah Farms	Century/Heritage Farm	Lauderdale	Killen		
Hickory Ridge Farm	Century/Heritage Farm	Morgan	Falkville		
Hurston-Vasant Farms	Century/Heritage Farm	Colbert	Tuscumbia		
Jesse David Hagood Farm	Century Farm	Lawrence	Town Creek		
Joe Wheeler State Park	State Park	Lauderdale	Near Rogersville	2,550 acres along Wheeler Lake; includes a resort lodge, cottages,	

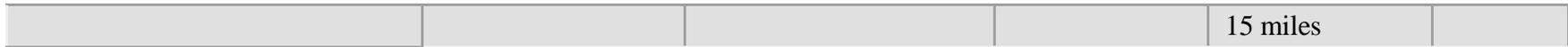
				convention facilities, restaurant, campground, a marina, hiking trails, and golf course	
John Joe Eckl Farm	Century/Heritage Farm	Lauderdale	Florence		
Key Cave National Wildlife Refuge	Wildlife Conservation Area	Lauderdale	5 miles southwest of Florence	1,060 acres containing numerous sinkholes and underground cave systems that provide habitat for Alabama cavefish and gray bats	
Lauderdale State Wildlife Management Area	Wildlife Conservation Area	Lauderdale	Waterloo	18,299 acres	
Leonard Eckl Farm	Century/Heritage Farm	Lauderdale	Florence		
Locker Farm	Century Farm	Lauderdale	Florence		
Louis Russell Place	Century Farm	Colbert			
Mallard – Fox Creek Wildlife Management Area	Wildlife Conservation Area	Lawrence/Morgan	Decatur	1,805 acres	
Maples Stock Farm	Century/Heritage Farm	Limestone	Elkmont		
Murray Farm	Century/Heritage Farm	Franklin	Russellville		

Norman Estate	Heritage Farm	Colbert			
Old Bolding Place	Century/Heritage Farm	Franklin	Red Bay		
Old McWhorter Homeplace	Heritage Farm	Lawrence	Moulton		
Ramsey Place	Century Farm	Franklin	Red Bay		
Reeves Farm	Century Farm	Morgan	Hartselle		
Richardson Farm	Century/Heritage Farm	Franklin	Spruce Pine		
Riverton Wildlife Management Area	Wildlife Conservation Area	Colbert	Near Cherokee	6,706 acres	
Rountree Farm	Century/Heritage Farm	Morgan	Hartselle		
Sam McKinney Place	Century Farm	Franklin	Red Bay		
Seven-Mile Island National Wildlife Management Area	Wildlife Conservation Area	Lauderdale	Florence	4,685 acres	
Shoals Creek Preserve	Wildlife Conservation Area	Lauderdale	3 miles north of St. Florian	298-acres wildlife habitat conservation	
Simmons Farm	Century/Heritage Farm	Morgan	Falkville		
Sipsey Wilderness	Wilderness Area	Lawrence/ Winston	South of Moulton	25,000 acres within Bankhead National Forest; third largest wilderness area east of the Mississippi River, nicknamed "Land of 1000 Waterfalls"	

Stover's Heritage Farm	Heritage Farm	Lawrence	Hillsboro		
Summerwood	Century Farm	Lawrence	Courtland		
Swan Creek Wildlife Management Area	Wildlife Conservation Area	Limestone	Decatur	8,870 acres	
The Cedars	Heritage Farm	Limestone	Belle Mina		
The George Place	Century/Heritage Farm	Lauderdale	Florence		
The Willie Ruf Farm	Century/Heritage Farm	Limestone	Athens		
Thorn Place	Century/Heritage Farm	Franklin	Red Bay		
TVA Muscle Shoals Reservation	Reserved Lands	Colbert	located in the center of the cities of Florence, Muscle Shoals, Sheffield, and Tusculmbia	2,640 acres	
Vest Acres	Century/Heritage Farm	Morgan	Falkville		
Web Parrish Place	Century Farm	Franklin			
Wheeler National Wildlife Refuge	National Wildlife Refuge	Limestone	between Decatur and Huntsville	35,000 acres; Supports Alabama's only concentration of wintering Canada geese	
Woodside	Heritage Farm	Limestone	Belle Mina		

<b><u>WATER RESOURCES</u></b>					
<b>NAME</b>	<b>TYPE</b>	<b>COUNTY</b>	<b>COMMUNITY</b>	<b>REMARKS</b>	<b>MAP GRID #</b>
Anderson Creek	Regional Creek	Lauderdale			
Bear Creek	Regional Creek	Franklin			
Bear Creek Reservoir	Reservoir			620 acres	
Big Nance Creek	Regional Creek	Lawrence			
Bluewater Creek	Regional Creek	Lauderdale			
Brushy Creek	Regional Creek	Lawrence			
Buzzard Roost Creek	Regional Creek	Colbert			
Buzzard Roost Spring	Spring	Colbert	Buzzard Roost	Water source for the Colbert House	
Cane Creek	Regional Creek	Colbert			
Cedar Creek	Regional Creek	Franklin			
Cedar Creek Reservoir	Reservoir	Franklin		4,200 acres	
Cotaco Creek	Regional Creek	Morgan			
Cypress Creek	Regional Creek	Lauderdale			
Elk River	Regional River	Limestone			
Flint Creek	Regional Creek	Morgan			
Little Bear Creek	Regional Creek	Franklin			
Little Bear Creek Reservoir	Reservoir			1,680 acres	
Little Cypress Creek	Regional Creek	Lauderdale			
Mallard Creek	Creek				

Mud Creek	Regional Creek	Franklin			
Pickwick Reservoir	Reservoir	Lauderdale/Colbert	Stretches from Waterloo to Sheffield/Florence	30,175 acres of water along the Tennessee River, stretching 46 miles	
Rock Creek	Regional Creek	Colbert			
Rock Spring	Spring	Lauderdale	Midway between Threet and Buzzard Roost		
Round Island Creek	Regional Creek	Limestone			
Shoal Creek	Regional Creek	Lauderdale			
Spring Creek	Regional Creek	Colbert/Franklin			
Sugar Creek	Regional Creek	Limestone			
Town Creek	Regional Creek	Colbert/Lawrence			
Upper Bear Creek Reservoir	Reservoir			1,860 acres	
West Flint Creek	Regional Creek	Lawrence/Morgan			
Wheeler Reservoir	Reservoir	Lauderdale/Limestone/Lawrence/Morgan	Stretches from Rogersville to Guntersville	67,100 acres of water along the Tennessee River, stretching nearly 60 miles	
Wilson Reservoir	Reservoir	Lauderdale/Colbert/Lawrence	Stretches from Florence Rogersville	15,930 acres of water along the Tennessee River, stretching	



## BIOLOGICAL RESOURCES

<u>Amphibians</u>					
Scientific Name	Common Name	State Rank	County	Remarks	Map Grid #
<i>Cryptobranchus alleganiensis</i>	Hellbender	imperiled	Colbert/Lauderdale/Limestone/Morgan		
<i>Gyrinophilus palleucus palleucus</i>	Pale Salamander	imperiled	Colbert/Limestone		
<i>Desmognathus ocoee</i>	Mountain Dusky Salamander	imperiled	Morgan		
<i>Aneides aeneus</i>	Green Salamander	rare	Colbert		
<i>Plethodon websteri</i>	Webster's Salamander	rare	Franklin		
<i>Ambystoma texanum</i>	Smallmouth Salamander	rare	Morgan		
<u>Arachnids</u>					
<i>Islandiana muma</i>	A Cave Spider	critically imperiled	Colbert/Lawrence		
<i>Trisetobisium fallax</i>	A Pseudoscorpion	critically imperiled	Colbert/Lawrence		
<i>Nesticus jonesi</i>	Cave Spring Cave Spider	critically imperiled	Morgan		
<i>Tyrannochthonius archeri</i>	A Cave Obligate Pseudoscorpion	critically imperiled	Morgan		
<i>Hesperonemastoma pallidimaculosa</i>	A Cave Obligate Harvestman	critically imperiled	Morgan		
<i>Neoleptoneta serena</i>	A Cave Obligate Spider	imperiled	Lauderdale		
<i>Tyrannochthonius floridensis</i>	A Pseudoscorpion	imperiled	Franklin/Morgan		
<u>Birds</u>					
<i>Ammodramus savannarum</i>	Grasshopper Sparrow	rare	Colbert/Franklin/Lauderdale/Lawrence/Limestone/Morgan		
<i>Anas rubripes</i>	American Black Duck	imperiled/migratory	Limestone/Morgan		
<i>Chondestes grammacus</i>	Lark Sparrow	rare	Colbert/Franklin/Lauderdale/Lawrence/Limestone/Morgan		

<i>Columbina passerina</i>	Common Ground-dove	rare	Franklin		
<i>Dendroica cerulea</i>	Cerulean Warbler <sup>4</sup>	critically imperiled	Colbert/Franklin/Lauderdale/Lawrence/Limestone/Morgan		
<i>Falco sparverius</i>	American Kestrel	rare/migratory	Colbert/Franklin/Lauderdale/Lawrence/Limestone/Morgan		
<i>Haliaeetus leucocephalus</i>	Bald Eagle	rare	Lauderdale/Lawrence		
<i>Helmitheros vermivorum</i>	Worm-eating Warbler	rare	Colbert/Lauderdale/Lawrence/Limestone/Morgan		
<i>Ixobrychus exilis</i>	Least Bittern	imperiled/migratory	Lawrence		
<i>Limothlypis swainsonii</i>	Swainson's Warbler	rare	Colbert/Franklin/Lauderdale/Lawrence/Limestone/Morgan		
<i>Peucaea aestivalis</i>	Bachman's Sparrow	rare	Limestone/Morgan		
<i>Picoides borealis</i>	Red-cockaded Woodpecker	imperiled	Colbert/Lawrence		
<i>Scolopax minor</i>	American Woodcock	rare/migratory	Colbert/Franklin/Lauderdale/Lawrence/Limestone		
<i>Tyrannus forficatus</i>	Scissor-tailed Flycatcher	imperiled	Colbert/Lauderdale/Morgan		
<i>Tyto alba</i>	Barn-owl	rare	Colbert/Lauderdale/Limestone/Morgan		
<i>Vireo gilvus</i>	Warbling Vireo	critically imperiled	Colbert/Lauderdale		
<i>Vireo solitarius</i>	Blue-headed Vireo	imperiled/migratory	Lawrence/Morgan		
<b><u>Crustaceans</u></b>					
<i>Cambarus howardi</i>	Chattahoochee Crayfish	imperiled	Franklin		
<i>Cambarus acanthura</i>	Thornytail Crayfish <sup>4</sup>	rare	Colbert/Lauderdale/Limestone		
<i>Cambarus bartonii</i>	Appalachian Brook Crayfish <sup>5</sup>	imperiled	Franklin		
<i>Cambarus graysoni</i>	Twospot Crayfish <sup>4</sup>	rare	Lauderdale/Limestone		
<i>Cambarus halli</i>	Slackwater Crayfish	rare	Franklin		
<i>Cambarus jonesi</i>	Alabama Cave Crayfish <sup>2</sup>	imperiled	Colbert/Lauderdale/Limestone/Morgan		
<i>Cambarus laconensis</i>	Lacon Exit Cave Crayfish	critically imperiled	Morgan		
<i>Cambarus longirostris</i>	Longnose Crayfish <sup>4</sup>	imperiled	Lauderdale		
<i>Cambarus veitchorum</i>	White Spring Cave Crayfish <sup>2</sup>	critically imperiled	Limestone		
<i>Fallicambarus fodiens</i>	Digger Crayfish <sup>4</sup>	rare	Lauderdale/Limestone		
<i>Orconectes alabamensis</i>	Alabama Crayfish <sup>4</sup>	imperiled	Colbert/Lauderdale/Lawrence/Morgan		
<i>Orconectes australis australis</i>	Southern Cave Crayfish	rare	Morgan		
<i>Orconectes durelli</i>	Saddle Crayfish	critically imperiled	Lauderdale		

<i>Orconectes forceps</i>	Surgeon Crayfish	rare	Lauderdale/Limestone/Lawrence		
<i>Orconectes mirus</i>	Wonderful Crayfish	rare	Lauderdale/Limestone		
<i>Orconectes placidus</i>	Bigclaw Crayfish	imperiled	Colbert/Lawrence/Limestone/Morgan		
<i>Orconectes putnami</i>	Phallic Crayfish	rare	Lauderdale/Lawrence/Limestone/Morgan		
<i>Procambarus paeninsulanaus</i>	Peninsula Crayfish	imperiled	Franklin		
<i>Procambarus pecki</i>	Phantom Cave Crayfish <sup>2</sup>	critically imperiled	Colbert/Lauderdale/Morgan		
<i>Procambarus viaevirdis</i>	Vernal Crayfish <sup>4</sup>	critically imperiled	Lauderdale		
<b>Decapods</b>					
<i>Palaemonias alabamae</i>	Alabama Cave Shrimp	critically imperiled	Colbert		
<b>Fish</b>					
<i>Ameiurus bruneus</i>	Snail Bullhead	rare	Franklin		
<i>Ameiurus catus</i>	White Catfish	rare	Franklin		
<i>Ameiurus serracanthus</i>	Spotted Bullhead	imperiled	Franklin		
<i>Campostoma pauciradii</i>	Bluefin Stoneroller	imperiled	Franklin		
<i>Carpionodes carpio</i>	River Carpsucker	imperiled	Colbert/Lauderdale/Limestone		
<i>Cottus bairdii</i>	Mottled Sculpin	imperiled	Lauderdale		
<i>Cycleptus elongatus</i>	Blue Sucker	imperiled	Colbert/Lauderdale		
<i>Cyprinella callitaenia</i>	Bluestripe Shiner	critically imperiled	Franklin		
<i>Cyprinella gibbsi</i>	Tallapoosa Shiner	rare	Franklin		
<i>Elassoma alabamae</i>	Spring Pygmy Sunfish <sup>2</sup>	critically imperiled	Lauderdale/Limestone		
<i>Erimystax dissimilis</i>	Streamline Chub	critically imperiled	Lauderdale		
<i>Erimystax insignis</i>	Blotched Chub	imperiled	Lauderdale		
<i>Etheostoma blennioides</i>	Greenside Darter	rare	Colbert/Lawrence/Limestone/Morgan		
<i>Etheostoma blenniuis</i>	Blenny Darter	imperiled	Lauderdale		
<i>Etheostoma boschungii</i>	Slackwater Darter	critically imperiled	Lauderdale/Limestone		
<i>Etheostoma camurum</i>	Bluebreast Darter	critically imperiled	Limestone		
<i>Etheostoma corona</i>	Crown Darter	imperiled	Lauderdale		

<i>Etheostoma crossopterum</i>	Fringed Darter	critically imperiled	Lauderdale		
<i>Etheostoma douglasi</i>	Tuskaloosa Darter	imperiled	Lawrence		
<i>Etheostoma flabellare</i>	Fantail Darter	rare	Colbert/Lauderdale/Lawrence/Limestone/Morgan		
<i>Etheostoma histrio</i>	Harlequin Darter	rare	Colbert		
<i>Etheostoma jessiae</i>	Blueside Darter	rare	Lauderdale/Lawrence/Limestone		
<i>Etheostoma kennicotti</i>	Stripetail Darter	rare	Colbert/Lauderdale/Lawrence/Limestone/Morgan		
<i>Etheostoma neopterum</i>	Lollipop Darter	critically imperiled	Lauderdale		
<i>Etheostoma rufilineatum</i>	Redline Darter	rare	Colbert/Lauderdale/Limestone		
<i>Etheostoma sp. cf. bellator "A"</i>	Sipsey Darter <sup>2</sup>	imperiled	Lawrence		
<i>Etheostoma sp. cf. zonistium</i>	Blueface Darter	critically imperiled	Lawrence		
<i>Etheostoma tallapoosae</i>	Tallapoosa Darter	rare	Franklin		
<i>Etheostoma tennesseense</i>	Snubnose Darter	rare	Colbert/Lauderdale/Limestone/Morgan		
<i>Etheostoma tuscumbia</i>	Tuscumbia Darter	imperiled	Colbert/Lauderdale/Lawrence/Limestone/Morgan		
<i>Etheostoma wapiti</i>	Boulder Darter <sup>4</sup>	critically imperiled	Lauderdale/Limestone		
<i>Etheostoma zonale</i>	Banded Darter	imperiled	Colbert/Lauderdale/Lawrence/Limestone		
<i>Etheostoma zonistium</i>	Bandfin Darter	critically imperiled	Colbert		
<i>Fundulus catenatus</i>	Northern Studfish	rare	Colbert/Lauderdale/Limestone		
<i>Hemitremia flammea</i>	Flame Chub	rare	Colbert/Lauderdale/Lawrence/Limestone/Morgan		
<i>Hiodon tergisus</i>	Mooneye	rare	Colbert/Lauderdale/Lawrence/Limestone/Morgan		
<i>Hybopsis amblops</i>	Bigeye Chub	rare	Colbert/Lauderdale/Lawrence/Limestone		
<i>Hybopsis lineapunctata</i>	Lined Chub	rare	Franklin		
<i>Ichthyomyzon greeleyi</i>	Mountain Brook Lamprey	imperiled	Lauderdale		
<i>Ictiobus cyprinellus</i>	Bigmouth Buffalo	imperiled	Lauderdale/Lawrence/Limestone/Morgan		
<i>Ictiobus niger</i>	Black Buffalo	imperiled	Lauderdale/Lawrence/Limestone/Morgan		
<i>Lampetra appendix</i>	American Brook Lamprey	critically imperiled	Colbert/Limestone		
<i>Luxilus coccogenis</i>	Warpaint Shiner	critically imperiled	Lauderdale		
<i>Luxilus zonistius</i>	Bandfin Shiner	rare	Franklin		

<i>Lythrurus fumeus</i>	Ribbon Shiner	imperiled	Colbert/Lauderdale		
<i>Lythrurus lirus</i>	Mountain Shiner	rare	Lauderdale		
<i>Macrhybopsis hyostoma</i>	Shoal Chub	rare	Limestone		
<i>Micropterus cataractae</i>	Shoal Bass	imperiled	Franklin		
<i>Moxostoma anisurum</i>	Silver Redhorse	imperiled	Lauderdale/Lawrence/Limestone/Morgan		
<i>Moxostoma breviceps</i>	Shorthead Redhorse	rare	Lauderdale/Lawrence/Limestone/Morgan		
<i>Moxostoma lachneri</i>	Greater Jumprock	rare	Franklin		
<i>Moxostoma sp. cf. poecilurum</i>	Apalachicola Redhorse	imperiled	Franklin		
<i>Nocomis micropogon</i>	River Chub	imperiled	Lauderdale		
<i>Notropis boops</i>	Bigeye Shiner	imperiled	Colbert/Lauderdale/Lawrence/Limestone		
<i>Notropis buchani</i>	Ghost Shiner	imperiled	Colbert/Lauderdale/Lawrence/Limestone/Morgan		
<i>Notropis cummingsae</i>	Dusky Shiner	imperiled	Franklin		
<i>Notropis hypsilepis</i>	Highscale Shiner	imperiled	Franklin		
<i>Notropis leuciodus</i>	Tennessee Shiner	critically imperiled	Lauderdale		
<i>Notropis micropteryx</i>	Highland Shiner	imperiled	Colbert/Lauderdale/Lawrence/Limestone		
<i>Notropis sp. cf. spectrunculus</i>	Sawfin Shiner	imperiled	Lauderdale/Limestone		
<i>Notropis telescopus</i>	Telescope Shiner	rare	Colbert/Lauderdale/Limestone		
<i>Notropis wickliffi</i>	Channel Shiner	critically imperiled	Lauderdale		
<i>Noturus eleutherus</i>	Mountain Madtom	critically imperiled	Limestone		
<i>Noturus exilis</i>	Slender Madtom	rare	Colbert/Lauderdale/Lawrence/Limestone		
<i>Noturus miurus</i>	Brindled Madtom4	critically imperiled	Colbert/Lauderdale		
<i>Noturus mocturnus</i>	Freckled Madtom	rare	Lauderdale/Morgan		
<i>Noturus sp. cf. flavus</i>	Highlands Stonecat	critically imperiled	Lauderdale/Limestone		
<i>Perca flavescens</i>	Yellow Perch	rare	Franklin/Lauderdale/Lawrence/Limestone/Morgan		
<i>Percina burtoni</i>	Blotchside Logperch4	critically imperiled	Lauderdale		
<i>Percina evides</i>	Gilt Darter	imperiled	Colbert/Lauderdale/Limestone		
<i>Percina palmaris</i>	Bronze Darter	rare	Franklin		

<i>Percina phoxocephala</i>	Slenderhead Darter	imperiled	Colbert		
<i>Percina shumardi</i>	River Darter	rare	Colbert/Lauderdale/Lawrence/Limestone		
<i>Percina sipsi</i>	Bankhead Darter2	critically imperiled	Lawrence		
<i>Percina smithvanizi</i>	Muscadine Darter	imperiled	Franklin		
<i>Phenacobius uranops</i>	Stargazing Minnow	critically imperiled	Lauderdale/Limestone		
<i>Phoxinus erythrogaster</i>	Southern Redbelly Dace	rare	Colbert/Lauderdale/Lawrence/Limestone/Morgan		
<i>Polyodon spathula</i>	Paddlefish	rare	Lauderdale/Limestone		
<i>Pteronotropis euryzonus</i>	Broadstripe Shiner	imperiled	Franklin		
<i>Speoplatyrhinus poulsoni</i>	Alabama Cavefish2	critically imperiled	Lauderdale		
<i>Typhlichthys subterraneus</i>	Southern Cavefish	rare	Colbert/Lauderdale/Lawrence/Limestone/Morgan		
<b>Hexapods</b>					
<i>Litocampa sp. 1</i>	A Cave Dipluran	critically imperiled	Colbert		
<i>Schaefferia christianseni</i>	A Cave Obligate Springtail	critically imperiled	Morgan		
<i>Tomocerus bidentatus</i>	A Springtail	imperiled	Colbert		
<i>Pseudosinella christianseni</i>	A Cave Obligate Springtail	imperiled	Morgan		
<b><u>Insects</u></b>					
<i>Agapetus gelbae</i>	Caddisfly	critically imperiled	Lauderdale		
<i>Agapetus hessi</i>	Caddisfly	critically imperiled	Lawrence		
<i>Agrypnia improba</i>	Caddisfly	critically imperiled	Franklin		
<i>Atheta alabama</i>	A Beetle	critically imperiled	Morgan		
<i>Banksiola concatenata</i>	Caddisfly	critically imperiled	Franklin		
<i>Batriasymmodes spelaeus</i>	A Beetle	rare	Lauderdale/Lawrence/Morgan		
<i>Batrisodes jonesi</i>	A Cave Obligate Beetle2	imperiled	Colbert		
<i>Batrisodes specus</i>	A Cave Obligate Beetle	imperiled	Colbert		
<i>Batrisodes tumoris</i>	A Beetle2	critically imperiled	Colbert		
<i>Batrisodes valentinei</i>	A Cave Obligate Beetle	imperiled	Morgan		
<i>Catops gratiosa</i>	A Beetle	imperiled	Colbert/Morgan		

<i>Cheumatopsyche kinlockensis</i>	A Caddisfly	critically imperiled	Lawrence		
<i>Chimarra socia</i>	Caddisfly	critically imperiled	Lauderdale		
<i>Dolophilodes major</i>	Caddisfly	critically imperiled	Lawrence		
<i>Folsomia candida</i>	A Springtail	critically imperiled	Colbert		
<i>Hydropsyche rotosa</i>	Caddisfly	critically imperiled	Lauderdale/Limestone		
<i>Hydropsyche simulans</i>	Caddisfly	critically imperiled	Limestone		
<i>Hydroptila coweetensis</i>	Caddisfly	critically imperiled	Lawrence		
<i>Hydroptila fuscina</i>	Caddisfly	critically imperiled	Lauderdale		
<i>Neophylax atlanta</i>	Caddisfly	critically imperiled	Lawrence		
<i>Neophylax concinnus</i>	Caddisfly	critically imperiled	Lawrence		
<i>Neophylax ornatus</i>	Caddisfly	critically imperiled	Franklin/Lawrence		
<i>Neophylax securis</i>	Caddisfly	critically imperiled	Lawrence		
<i>Orthotrichia baldufi</i>	Caddisfly	critically imperiled	Lauderdale/Lawrence		
<i>Oxyethira dualis</i>	Caddisfly	critically imperiled	Lauderdale		
<i>Platycentropus radiatus</i>	Caddisfly	critically imperiled	Lawrence		
<i>Pseudanophthalmus distinguens</i>	A Ground Beetle	critically imperiled	Morgan		
<i>Pseudanophthalmus fluviatilis</i>	A Cave Obligate Beetle	imperiled	Morgan		
<i>Psilotreta labida</i>	Caddisfly	critically imperiled	Lauderdale		
<i>Psychomyia nomada</i>	Caddisfly	critically imperiled	Lauderdale		
<i>Ptomaphagus cavernicola</i>	A Cave Carrion Beetle	critically imperiled	Morgan		
<i>Pycnopsyche gentilis</i>	Caddisfly	critically imperiled	Franklin		
<i>Quedius erythrogaster</i>	A Beetle	rare	Colbert		
<i>Rhadine caudata</i>	A Ground Beetle	imperiled	Colbert/Limestone		
<i>Rhyacophila carolae</i>	Caddisfly	critically imperiled	Lawrence		
<i>Rhyacophila fenestra</i>	Caddisfly	critically imperiled	Lauderdale/Limestone		
<i>Rhyacophila minor</i>	Caddisfly	critically imperiled	Lawrence		
<i>Setodes epicampes</i>	Caddisfly	critically imperiled	Lauderdale		

<i>Trienodes aba</i>	Caddisfly	critically imperiled	Limestone		
<i>Trienodes taenius</i>	Cold Spring Trienodes Caddisfly	critically imperiled	Franklin		
<i>Tychobythinus jonesi</i>	A Cave Obligate Beetle2	critically imperiled	Colbert		
<b><u>Mammals</u></b>					
<i>Microtus ochrogaster</i>	Prairie Vole	imperiled	Limestone		
<i>Myotis grisescens</i>	Gray Bat	imperiled	Colbert/Lauderdale/Lawrence/Limestone/Morgan		
<i>Myotis septentrionalis</i>	Northern Myotis	imperiled	Lawrence		
<i>Myotis sodalis</i>	Indiana Bat	imperiled	Lawrence/Morgan		
<i>Myotis sodalis</i>	Indiana Bat3, 9	imperiled/migratory	Colbert/Lauderdale/Limestone		
<i>Sylvilagus obscurus</i>	Appalachian Cottontail	critically imperiled	Lawrence		
<i>Tadarida brasiliensis</i>	Brazilian Free-tailed Bat	rare	Franklin		
<i>Ursus americanus</i>	Black Bear6	imperiled	Franklin/Limestone		
<i>Zapus hudsonius</i>	Meadow Jumping Mouse5	rare	Franklin		
<b><u>Mussels</u></b>					
<i>Actinonaias ligamentina</i>	A Mucket10	imperiled	Colbert/Lauderdale/Limestone/Morgan		
<i>Alasmidonta marginata</i>	Elktoe4	critically imperiled	Colbert/Lauderdale		
<i>Anodonta suborbiculata</i>	Flat Floater	rare	Colbert/Lauderdale/Limestone/Morgan		
<i>Arcidens confragosus</i>	Rock Pocketbook	rare	Colbert/Lauderdale		
<i>Cumberlandia monodonta</i>	Spectaclecase	critically imperiled	Colbert/Lauderdale/Limestone/Morgan		
<i>Cyprogenia stegaria</i>	Fanshell	critically imperiled	Colbert/Lauderdale/Limestone/Morgan		
<i>Dromus dromas</i>	Dromedary Pearlymussel	critically imperiled	Colbert/Lauderdale/Limestone/Morgan		
<i>Eliptoides sloatianus</i>	Purple Bankclimber	critically imperiled	Franklin		
<i>Elliptio dilatata</i>	Spike	critically imperiled	Colbert/Lauderdale/Lawrence/Limestone/Morgan		
<i>Elliptio fumata</i>	Gulf Slabshell	rare	Franklin		
<i>Epioblasma brevidens</i>	Cumberlandian Combshell4	critically imperiled	Colbert/Lauderdale/Morgan		
<i>Epioblasma sp. cf. capsaeformis</i>	Duck River Oyster Mussel	critically imperiled	Colbert/Lauderdale		
<i>Epioblasma triquetra</i>	Snuffbox4	critically imperiled	Colbert/Lauderdale/Limestone/Morgan		

<i>Fusconaia cor</i>	Shiny Pigtoe4	critically imperiled	Colbert/Lauderdale		
<i>Fusconaia cuneolus</i>	Fine-rayed Pigtoe4	critically imperiled	Colbert/Lauderdale/Limestone/Morgan		
<i>Fusconaia subrotunda</i>	Longsolid	critically imperiled	Colbert/Lauderdale/Limestone/Morgan		
<i>Hamiota altilis</i>	Finelined Pocketbook	imperiled	Franklin		
<i>Hamiota perovalis</i>	Orangenacre Mucket	imperiled	Lawrence		
<i>Hamiota subangulata</i>	Shinyrayed Pocketbook5	critically imperiled	Franklin		
<i>Lampsilis abrupta</i>	Pink Mucket	critically imperiled	Colbert/Lauderdale/Lawrence/Limestone/Morgan		
<i>Lampsilis fasciola</i>	Wavyrayed Lampmussel	imperiled	Colbert/Lauderdale/Lawrence/Limestone		
<i>Lampsilis floridensis</i>	Florida Sandshell	imperiled	Franklin		
<i>Lampsilis ovata</i>	Pocketbook	imperiled	Colbert/Lauderdale/Limestone/Morgan		
<i>Lampsilis virescens</i>	Alabama Lampmussel4	critically imperiled	Colbert/Lauderdale		
<i>Lasmigona complanata</i>	White Heelsplitter	imperiled	Colbert/Lauderdale/Lawrence/Limestone/Morgan		
<i>Lasmigona costata</i>	Flutedshell	imperiled	Colbert/Lauderdale/Limestone		
<i>Lemiox rimosus</i>	Birdwing Pearlymussel	critically imperiled	Colbert/Lauderdale/Morgan		
<i>Ligumia recta</i>	Black Sandshell	imperiled	Colbert/Lauderdale/Lawrence/Limestone/Morgan		
<i>Medionidus acutissimus</i>	Alabama Moccasinshell	imperiled	Lawrence		
<i>Medionidus conradicus</i>	Cumberland Moccasinshell4	critically imperiled	Colbert/Lauderdale		
<i>Obovaria subrotunda</i>	Round Hickorynut4	imperiled	Colbert/Lauderdale/Limestone/Morgan		
<i>Plethobasus cicatricosus</i>	White Wartyback	critically imperiled	Colbert/Lauderdale/Morgan		
<i>Plethobasus cyphus</i>	Sheepnose	critically imperiled	Colbert/Lauderdale/Limestone/Morgan		
<i>Pleurobema cordatum</i>	Ohio Pigtoe	imperiled	Colbert/Lauderdale/Limestone/Morgan		
<i>Pleurobema decisum</i>	Southern Clubshell	imperiled	Franklin		
<i>Pleurobema oviforme</i>	Tennessee Clubshell	critically imperiled	Colbert/Lauderdale/Limestone		
<i>Pleurobema perovatum</i>	Ovate Clubshell	critically imperiled	Franklin		
<i>Pleurobema plenum</i>	Rough Pigtoe	critically imperiled	Colbert/Lauderdale/Lawrence/Limestone/Morgan		
<i>Pleurobema pyriforme</i>	Oval Pigtoe5	critically imperiled	Franklin		
<i>Pleurobema rubellum</i>	Dark Pigtoe2	critically imperiled	Lawrence		
<i>Pleurobema rubrum</i>	Pyramid Pigtoe	critically imperiled	Colbert/Lauderdale/Limestone/Morgan		

<i>Pleurobema sintoxia</i>	Round Pigtoe	critically imperiled	Colbert/Lauderdale/Limestone/Morgan		
<i>Pleurobema barnesiana</i>	Tennessee Pigtoe4	critically imperiled	Colbert/Lauderdale/Limestone		
<i>Pleurobema dolabelloides</i>	Slabside Pearlymussel4	critically imperiled	Colbert/Lauderdale/Limestone/Morgan		
<i>Potamilus ohiensis</i>	Pink Papershell	rare	Colbert/Lauderdale/Limestone/Morgan		
<i>Ptychobranhus fasciolaris</i>	Kidneyshell	imperiled	Colbert/Lauderdale/Limestone/Morgan		
<i>Ptychobranhus greenii</i>	Triangular Kidneyshell	critically imperiled	Lawrence		
<i>Quadrula cylindrica cylindrica</i>	Rabbitsfoot4	critically imperiled	Colbert/Lauderdale/Limestone/Morgan		
<i>Quadrula infucata</i>	Sculptured Pigtoe	critically imperiled	Franklin		
<i>Quadrula metanevra</i>	Monkeyface	rare	Colbert/Lauderdale/Lawrence/Limestone/Morgan		
<i>Strophitus connasaugaensis</i>	Alabama Creekmussel	rare	Franklin		
<i>Strophitus subvexus</i>	Southern Creekmussel	rare	Lawrence		
<i>Strophitus undulatus</i>	Creepers4	critically imperiled	Colbert/Lauderdale		
<i>Toxolasma corvunculus</i>	Southern Purple Lilliput5	critically imperiled	Franklin		
<i>Toxolasma cylindrellus</i>	Pale Lilliput4	critically imperiled	Lauderdale/Limestone		
<i>Toxolasma lividum</i>	Purple Lilliput	imperiled	Colbert/Lauderdale/Lawrence/Limestone		
<i>Toxolasma parvum</i>	Lilliput	rare	Colbert/Franklin/Lauderdale/Lawrence/Limestone/Morgan		
<i>Toxolasma paulus</i>	Iridescent Lilliput	imperiled	Franklin		
<i>Truncilla donaciformis</i>	Fawnsfoot	rare	Colbert/Lauderdale/Limestone/Morgan		
<i>Truncilla truncata</i>	Deertoe	critically imperiled	Colbert/Lauderdale/Lawrence/Limestone/Morgan		
<i>Unio merus columbensis</i>	Apalachicola Pondhorn	imperiled	Franklin		
<i>Villosa iris</i>	Rainbow	imperiled	Colbert/Lauderdale/Lawrence/Limestone/Morgan		
<i>Villosa nebulosa</i>	Alabama Rainbow	rare	Lawrence		
<i>Villosa taeniata</i>	Painted Creekshell	imperiled	Colbert/Lauderdale/Limestone/Morgan		
<i>Villosa vanuxemensis</i>	Mountain Creekshell	rare	Colbert/Lauderdale/Lawrence/Limestone/Morgan		
<i>Villosa villosa</i>	Downy Rainbow	critically imperiled	Franklin		
<b>Natural</b>					

<b><u>Communities</u></b>					
<i>Bigelowia nuttallii</i> - <i>Coreopsis pulchra</i> - <i>Liatris microcephala</i> Herbaceous Vegetation	Sandstone Glade	imperiled	Lawrence		
<i>Quercus phellos</i> - <i>Liquidambar styraciflua</i> / <i>Chasmanthium laxum</i> Cumberland Plateau Forest	Cumberland Plateau Willow Oak Pond	critically imperiled	Lawrence		
<i>Schizachyrium scoparium</i> - <i>Danthonia sericea</i> - <i>Liatris microcephala</i> - ( <i>Eurybia surculosa</i> ) Wooded Herbaceous Vegetation	Cumberland Plateau Clifftop Sandstone Barren	imperiled	Lawrence		
<i>Sedum pulchellum</i> - <i>Talinum calcaricum</i> - <i>Leavenworthia</i> spp. / <i>Nostoc commune</i> Herbaceous Vegetation	Interior Low Plateau Limestone Glade Ephemeral Pool	imperiled	Colbert/Lawrence/Morgan		
<i>Selaginella rupestris</i> - <i>Schizachyrium scoparium</i> - <i>Hypericum gentianoides</i> - <i>Bulbostylis capillaris</i> Herbaceous Vegetation	Appalachian Low-elevation Granitic Dome	critically imperiled	Franklin		
<i>Sporobolus (neglectus, vaginiflorus)</i> - <i>Aristida longispica</i> - <i>Panicum flexile</i> - <i>Panicum capillare</i> Herbaceous Vegetation	Limestone Annual Grass Glade	imperiled	Colbert/Lawrence/Morgan		
<b><u>Non Vascular Plants</u></b>					
<i>Trichostomum crispulum</i>	Moss	imperiled	Morgan		
<b><u>Reptiles</u></b>					

<i>Eumeces anthracinus</i>	Coal Skink	rare	Colbert/Lawrence		
<i>Graptemys geographica</i>	Common Map Turtle	rare	Colbert/Lauderdale/Lawrence/Limestone/Morgan		
<i>Graptemys ouachitensis</i>	Ouachita Map Turtle	rare	Colbert/Lauderdale/Morgan		
<i>Lampropeltis calligaster rhombomaculata</i>	Mole Kingsnake	rare	Franklin		
<i>Macrochelys temminckii</i>	Alligator Snapping Turtle	rare	Colbert/Lauderdale		
<i>Nerodia taxispilota</i>	Brown Water Snake	rare	Franklin		
<i>Pituophis melanoleucus melanoleucus</i>	Northern Pine Snake	rare	Colbert/Lauderdale		
<b><u>Snails</u></b>					
<i>Athearnia anthonyi</i>	Anthony Riversnail	critically imperiled	Colbert/Lauderdale/Limestone		
<i>Elimia interveniens</i>	Slowwater Elimia	imperiled	Colbert/Lauderdale		
<i>Elimia laqueata</i>	Panel Elimia	imperiled	Limestone		
<i>Elimia nassula</i>	Round-rib Elimia	critically imperiled	Colbert/Lawrence/Morgan		
<i>Elimia paupercula</i>	Sooty Elimia	imperiled	Lauderdale		
<i>Elimia perstriata</i>	Engraved Elimia	critically imperiled	Lawrence		
<i>Lithasia armigera</i>	Armored Rocksnail	critically imperiled	Colbert/Lauderdale		
<i>Lithasia geniculata</i>	Ornate Rocksnail	critically imperiled	Colbert/Lauderdale		
<i>Lithasia lima</i>	Warty Rocksnail	critically imperiled	Colbert/Lauderdale/Limestone		
<i>Lithasia salebrosa</i>	Rustic Rocksnail	critically imperiled	Colbert/Lauderdale/Limestone		
<i>Lithasia verrucosa</i>	Varicose Rocksnail	rare	Colbert/Lauderdale		
<i>Marstonia pachyta</i>	Armored Marstonia	critically imperiled	Limestone		
<i>Pleurocera alveare</i>	Rugged Hornsnail	critically imperiled	Colbert/Limestone		
<i>Pleurocera alveare</i>	Rugged Hornsnail	imperiled	Lauderdale/Lawrence		
<i>Pleurocera pyrenella</i>	Skirted Hornsnail	imperiled	Limestone/Morgan		
<i>Pleurocera walkeri</i>	Telescope Hornsnail	rare	Lauderdale		
<i>Somatogyrus tennesseensis</i>	Opaque Pebblesnail	critically imperiled	Lauderdale		
<b><u>Vascular Plants</u></b>					

<i>Agalinis auriculata</i>	Auriculate False-foxglove <sup>4</sup>	critically imperiled	Morgan		
<i>Agastache nepetoides</i>	Yellow Giant Hyssop	critically imperiled	Lawrence		
<i>Apios priceana</i>	Price's Potato-bean	imperiled	Lawrence		
<i>Aplectrum hyemale</i>	Puttyroot	imperiled	Lawrence		
<i>Armoracia lacustris</i>	Lake Cress	critically imperiled	Colbert/Lawrence/Limestone		
<i>Asplenium scolopendrium</i> <i>var. americanum</i>	American Hart's-tongue Fern	critically imperiled	Morgan		
<i>Astragalus tennesseensis</i>	Tennessee Milk-vetch	critically imperiled	Lawrence/Morgan		
<i>Baptisia megacarpa</i>	Apalachicola Wild Indigo	imperiled	Franklin		
<i>Botrychium jenmanii</i>	Alabama Grapefern	critically imperiled	Franklin		
<i>Brickellia cordifolia</i>	Flyr's Brickell-bush	imperiled	Franklin		
<i>Callirhoe alcaeoides</i>	Clustered Poppy-mallow	imperiled	Morgan		
<i>Collinsia verna</i>	Spring Blue-eyed Mary	critically imperiled	Colbert		
<i>Comandra umbellata</i>	Bastard Toad-flax	critically imperiled	Colbert		
<i>Cotinus obovatus</i>	American Smoke-tree	imperiled	Morgan		
<i>Crataegus triflora</i>	Three-flowered Hawthorn	imperiled	Colbert		
<i>Croomia pauciflora</i>	Croomia	imperiled	Franklin		
<i>Cypripedium candidum</i>	Small White Lady's-slipper	critically imperiled	Colbert		
<i>Cystopteris tennesseensis</i>	Tennessee Bladderfern	imperiled	Morgan		
<i>Dalea foliosa</i>	Leafy Prairie Clover	critically imperiled	Colbert/Lawrence/Morgan		
<i>Dalea gattingeri</i>	Gattinger's Prairie Clover	rare	Lawrence/Morgan		
<i>Delphinium alabamicum</i>	Alabama Larkspur <sup>2</sup>	imperiled	Lawrence		
<i>Dicentra cucullaria</i>	Dutchman's Breeches	imperiled	Colbert/Lauderdale/Lawrence		
<i>Dodecatheon frenchii</i>	French's Shooting Star	critically imperiled	Colbert		
<i>Drosera rotundifolia</i>	Round-leaved Sundew	critically imperiled	Lawrence		
<i>Echinacea pallida</i>	Pale-purple Coneflower	imperiled	Franklin		
<i>Eleocharis wolfi</i>	Wolf's Spikerush	critically imperiled	Lauderdale		
<i>Elodea canadensis</i>	Broad Waterweed	critically imperiled	Limestone		
<i>Enemion biternatum</i>	False Rue-anemone	imperiled	Colbert		

<i>Equisetum arvense</i>	Field Horsetail	imperiled	Morgan		
<i>Eriogonum longifolium</i> <i>var. harperi</i>	Harper's Umbrella Plant	critically imperiled	Colbert/Lawrence		
<i>Frasera caroliniensis</i>	Carolina Gentian	imperiled	Colbert/Lawrence		
<i>Helianthus porteri</i>	Confederate Daisy	imperiled	Franklin		
<i>Huperzia lucidula</i>	Shining Clubmoss	imperiled	Lawrence		
<i>Huperzia porophila</i>	Rock Clubmoss	critically imperiled	Lawrence		
<i>Hydrastis canadensis</i>	Golden Seal	imperiled	Lawrence		
<i>Hymenocallis coronaria</i>	Shoals Spider-lily	imperiled	Franklin		
<i>Hymenophyllum tayloriae</i>	Gorge Filmy Fern	critically imperiled	Lawrence		
<i>Hypericum nudiflorum</i>	Pretty St. John's-wort	imperiled	Franklin		
<i>Isoetes butleri</i>	Butler's Quillwort	imperiled	Lawrence/Morgan		
<i>Isoetes virginica</i>	Piedmont Quillwort	imperiled	Franklin		
<i>Jamesianthus alabamensis</i>	Jamesianthus	rare	Colbert		
<i>Juglans cinerea</i>	Butternut	critically imperiled	Lawrence		
<i>Juncus georgianus</i>	Georgia Rush	critically imperiled	Franklin		
<i>Leavenworthia alabamica</i>	Alabama Glade-cress2	critically imperiled	Lawrence		
<i>Leavenworthia crassa</i>	Fleshy-fruit Glade Cress2	imperiled	Lawrence/Morgan		
<i>Leavenworthia uniflora</i>	Michaux Leavenworthia	imperiled	Lawrence/Morgan		
<i>Lesquerella densipila</i>	Duck River Bladderpod	critically imperiled	Lawrence/Limestone/Morgan		
<i>Lesquerella lyrata</i>	Lyrate Bladderpod2	critically imperiled	Colbert/Lawrence		
<i>Lilium canadense</i>	Canada Lily	imperiled	Lawrence/Morgan		
<i>Linum sulcatum</i> <i>var. harperi</i>	Harper's Grooved-yellow Flax	critically imperiled	Colbert/Lawrence		
<i>Liparis loeselii</i>	Lily-leaved Twayblade	critically imperiled	Franklin		
<i>Melica nitens</i>	Three-flower Melic Grass	critically imperiled	Lawrence		
<i>Mitella diphylla</i>	Miterwort	critically imperiled	Morgan		
<i>Monarda clinopodia</i>	Basil Bee-balm	imperiled	Lauderdale		
<i>Monotropsis odorata</i> <i>var.</i>	Sweet Pinesap	critically imperiled	Lawrence		

<i>odorata</i>					
<i>Muhlenbergia sobolifera</i>	Cliff Muhly	critically imperiled		Lauderdale	
<i>Neviusia alabamensis</i>	Alabama Snow-wreath	imperiled		Limestone	
<i>Onosmodium molle</i> ssp. <i>molle</i>	Soft False Gromwell	imperiled		Lawrence	
<i>Ophioglossum engelmannii</i>	Limestone Adder's-tongue	imperiled		Lawrence/Morgan	
<i>Pachysandra procumbens</i>	Allegheny-spurge	imperiled		Colbert/Lawrence	
<i>Panicum lithophilum</i>	Swallen's Panic-grass	critically imperiled		Franklin	
<i>Parnassia asarifolia</i>	Kidneyleaf Grass-of-parnassus	imperiled		Franklin	
<i>Pediomelum subacaule</i>	Nashville Breadroot	imperiled		Colbert/Lawrence	
<i>Phacelia dubia</i> var. <i>georgiana</i>	Outcrop Small-flower Phacelia	imperiled		Franklin	
<i>Phemeranthus calcaricus</i>	Limestone Fame-flower	imperiled		Lawrence	
<i>Phlox pulchra</i>	Wherry's Phlox2	imperiled		Lawrence	
<i>Plantago cordata</i>	Heart-leaved Plantain	critically imperiled		Colbert	
<i>Platanthera lacera</i>	Green-fringed Orchid	imperiled		Limestone	
<i>Platanthera peramoena</i>	Purple Fringeless Orchid	critically imperiled		Lauderdale	
<i>Psilotum nudum</i>	Whiskfern	critically imperiled		Franklin	
<i>Pycnanthemum curvipes</i>	A Mountain-mint	critically imperiled		Franklin	
<i>Ranunculus flabellaris</i>	Yellow Water-crowfoot	critically imperiled		Limestone	
<i>Rhododendron prunifolium</i>	Plumleaf Azalea	imperiled		Franklin	
<i>Rhynchospora saxicola</i>	Stone Mountain Beakrush	critically imperiled		Franklin	
<i>Rudbeckia heliopsidis</i>	Sun-facing Coneflower	imperiled		Franklin	
<i>Schoenolirion croceum</i>	Yellow Sunnysbell	imperiled		Colbert/Lawrence/Morgan	
<i>Selaginella arenicola</i> ssp. <i>riddellii</i>	Riddell's Spikemoss	imperiled		Franklin	
<i>Selaginella rupestris</i>	Ledge Spike-moss	imperiled		Franklin	
<i>Silene rotundifolia</i>	Roundleaf Catchfly	critically imperiled		Lawrence	

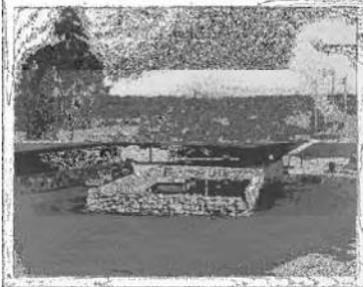
<i>Silphium brachiatum</i>	Cumberland Rosinweed	imperiled	Morgan		
<i>Stewartia ovata</i>	Mountain Camellia	imperiled	Lawrence		
<i>Stylophorum diphyllum</i>	Celandine Poppy	critically imperiled	Colbert		
<i>Thalictrum debile</i>	Southern Meadowrue	imperiled	Colbert/Lawrence		
<i>Thalictrum mirabile</i>	Little Mountain Meadowrue	imperiled	Colbert/Lawrence		
<i>Trichomanes petersii</i>	Dwarf Filmy-fern	imperiled	Lawrence		
<i>Trillium flexipes</i>	Nodding Trillium	imperiled	Lawrence/Morgan		
<i>Trillium pusillum var. 1</i>	Alabama Least Trillium	imperiled	Limestone		
<i>Trillium recurvatum</i>	Prairie Trillium	imperiled	Lawrence/Morgan		
<i>Trillium reliquum</i>	Relict Trillium	imperiled	Franklin		
<i>Trillium rugelii</i>	Southern Nodding Trillium	imperiled	Franklin		
<i>Trillium sessile</i>	Toadshade	imperiled	Limestone		
<i>Trillium vaseyi</i>	Vasey's Trillium	critically imperiled	Franklin		
<i>Triosteum angustifolium</i>	Yellowleaf Tinker's-weed	critically imperiled	Colbert/Morgan		
<i>Waldsteinia lobata</i>	Piedmont Barren Strawberry	critically imperiled	Franklin		

## APPENDIX E

### Cultural Resources Inventory

COUNTY: COLBERT	RESOURCE HISTORIC NAME SURVEY NUMBER	LOCATION	THEME	REMARKS	OWNER
	BARTON HALL	U. S. 72 near Cherokee	River	Listed on the National Register. Ca. 1840 Greek Revival dwelling is representative of the plantation economy.	Private
	BELLE MONT	Tuscumbia. 3.5 miles south of U.S. 72 x U.S. 43	River	Listed on the National Register. The ca. 1830 house is considered a rare surviving example, in the Deep South, of Thomas Jefferson's influence on early American architecture.	Private
	BUZZARD ROOST	U.S. 72, 3 miles West of Cherokee	Native American	Listed on the National Register. Site of a hotel on the historic Natchez Trace, originally a Native American trail, then an important trade corridor, and now part of the federal Natchez Trace Parkway	Federal

COUNTY: COLBERT	RESOURCE HISTORIC NAME SURVEY NUMBER	LOCATION	THEME	REMARKS	OWNER
	CHAMBERS/ROBINSON HOUSE	910 Montgomery Ave. at Sheffield	River	Listed on the National Register. This ca. 1895 Queen Anne dwelling was home to Judson and Mary Chambers and Dora and Charles Robinson.	Private
	FAME RECORDING STUDIO	603 E Avalon Ave, Muscle Shoals	Music	Listed on the Alabama Register. Florence Alabama Music Enterprise was organized in 1958 by Rick Hall. FAME established the "Muscle Shoals Sound" and launched the Tri-Cities' music industry boom of the 1960s-70s. This 1963 building is the only extant structure associated with the enterprise.	Private

COUNTY: COLBERT	RESOURCE HISTORIC NAME SURVEY NUMBER	LOCATION	THEME	REMARKS	OWNER
	FOWLER- DR. WILLIAM AND CHARLOTTE REID HOUSE	Philadelphia Ave, Muscle Shoals Vicinity	River	NRHP Eligible. Ca. 1935 residence is example of Academ- ic Revival architec- ture popular in the 1920s and is the only example of this type in the area.	Private
	GLENCOE PLANTATION CEMETERY	4 mi W on US 72 at Vulcan Mate- rials, Tuscambia	River	Listed on the Ala- bama Register. Bu- ried in this 1818- 1854 cemetery is Helen Keller's grandfather David Keller, whose wife was a decendant of Gov. Alexander Spotsword.	Private

COUNTY: COLBERT	RESOURCE HISTORIC NAME SURVEY NUMBER	LOCATION	THEME	REMARKS	OWNER
	HODGE- BLACKBURN- TWITTY HOUSE	Rt 2, Box 125, Cherokee (Allsboro)	River	Listed on the Ala- bama Register. This ca. 1844 antebellum home, built by Col. Richard Mann, is on the original Natchez Trace	Private
	HOWELL AND GRAVES JUNIOR HIGH SCHOOL	3300 Wilson Dam Road, Mus- cle Shoals	River	Listed on the Ala- bama Register. This 1927 school reflects the prevailing 20th- century idealism in public education and depicts the general prosperity and popu- lation growth brought about by the construction of Wil- son Dam and the in- dustrial development of the Tennessee River.	Public

COUNTY: COLBERT	RESOURCE HISTORIC NAME SURVEY NUMBER	LOCATION	THEME	REMARKS	OWNER
	COLBERT COUNTY COURTHOUSE SQUARE HISTORIC DISTRICT	Colbert County Courthouse Square	River	Listed on the Na- tional Register. Completed in 1881, the Colbert County courthouse, the focal point of the district, was the design of Nashville architect Laurent.	Local; multiple private
	FELIX GRUNDY NORMAN HOUSE	Tuscumbia	River	Listed on the Na- tional Register. Felix Grundy Norman was mayor of Tuscumbia and a state legislator for Colbert County in the 1840s.	Private

COUNTY: COLBERT	RESOURCE HISTORIC NAME SURVEY NUMBER	LOCATION	THEME	REMARKS	OWNER
	ISBELL-LUTHER AND FLOSSIE PACE FARM	SR-133, Muscle Shoals Vicinity	River	NRHP Eligible. This farm operates in its historic function and contains a ca. 1945 brick bungalow, two tenant houses, and outbuildings. The farm is an example of a mid-20th century farm in Colbert County.	Private
	IVY GREEN	300 West North Common, Tus- cumbia	River	Listed on the Na- tional Register. Birthplace of Helen Keller, known around the world for her dedication to im- proving conditions for the blind and deaf.	Local
	JOHN DANIEL RATHER HOUSE (LOCUST HILL)	209 South Cave Street, Tuscum- bia	River	Listed on the Na- tional Register. Built in 1823, Locust Hill was the home of Co- lonel William Win- ter.	Private

COUNTY: COLBERT	RESOURCE HISTORIC NAME SURVEY NUMBER	LOCATION	THEME	REMARKS	OWNER
	KING FARM	Near Town Creek	River	NRHP Eligible. Ca. 1915 bungalow and associated 305 acres serve as example of Craftsman architec- ture and farmstead	Private
	LaGRANGE COLLEGE SITE	4 mi SW of Leighton	River	Listed on the Ala- bama Register. This is the site of Ala- bama's first college, which opened its doors in 1830. The college was burned by Union Troops in 1863.	Public (La- Grange Histori- cal So- ciety)
	LaGRANGE ROCK SHELTER	Alabama 157 near Leighton	Native Amer- ican	Listed on the Na- tional Register. This natural feature har- bored evidence of the earliest humans in Alabama, dating back approximately 11,280 years.	Private

COUNTY: COLBERT	RESOURCE HISTORIC NAME SURVEY NUMBER	LOCATION	THEME	REMARKS	OWNER
	LEIGHTON CEMETERY	½ mi E of Leigh- ton on Old Hwy 20, Near Town Creek	River	NRHP Eligible. Cemetery contains presence of rare fu- nerary art and the grave of the founder of Leighton (d. 1873).	
	LEIGHTON TRAINING SCHOOL/LEIGHTON MIDDLE SCHOOL	2255 N Wash- ington St, Leigh- ton	River	Listed on the Ala- bama Register. This school was con- structed in 1928-29 with funds from the Rosenwald School Building Fund Pro- gram and embodies the early 20th- century ideals to provide a better edu- cation for rural black children.	Public
	LESLIE KING HOUSE	Near Town Creek	River	NRHP Eligible. Ca. 1880 wood frame vernacular rural farmhouse	Private

COUNTY: COLBERT	RESOURCE HISTORIC NAME SURVEY NUMBER	LOCATION	THEME	REMARKS	OWNER
	MELROSE	W side of Cook's Lane approx 1 mi W of US 43, Tuscumbia	River	Listed on the Alabama Register. This ca. 1830 cotton plantation in the Tennessee Valley, built possibly by David Goodloe, is a rare example in AL of the occurrence of the "Tidewater-type" cottage or "Virginia Style" house.	Private
	MORRIS H. HARLAN HOUSE	1801 Philadelphia Ave, Muscle Shoals Vicinity	River	NRHP Eligible. Ca. 1920 wood frame bungalow with sandstone masonry.	Private
	MUSCLE SHOALS SOUND STUDIO	3614 Jackson Hwy., Sheffield	Music	Listed on the National Register. Home of the legendary Muscle Shoals Rhythm Section, featured on countless famous recordings during the 1960s & 1970s.	Private

COUNTY: COLBERT	RESOURCE HISTORIC NAME SURVEY NUMBER	LOCATION	THEME	REMARKS	OWNER
	NEWMAN, E.L., LUSTRON HOUSE	1406 34th Street, Sheffield	River	Listed on the National Register. Lustron homes were a result of a housing shortage for G.I.'s returning from World War II.	Private
	NITRATE VILLAGE NUMBER 1 HISTORIC DISTRICT	Sheffield	River	Listed on the National Register. Village One began its development in 1918 by the U.S. Government to house personnel for the nearby Nitrate Plant #1.	Local; multiple private
	THE OAKS	Ricks Lane, Tus- cumbia	River	Listed on the National Register. Dwelling from ca. 1820.	Private

COUNTY: COLBERT	RESOURCE HISTORIC NAME SURVEY NUMBER	LOCATION	THEME	REMARKS	OWNER
	OLD NATCHEZ TRACE	Six miles north of Cherokee	Native Amer- ican	Listed on the Na- tional Register. The Natchez Trace was a significant route of trade between the Nashville and New Orleans during the early nineteenth cen- tury.	Federal
	PREUIT OAKS PLANTATION	Cotton Town Road, Leighton	River	Listed on the Na- tional Register. For- merly a 2500-acre plantation with 200 slaves, representative of modest plantation architecture.	Private
	RALPH C. SAUNDERS HOME	101 Hollywood Ave, Muscle Shoals Vicinity	River	NRHP Eligible. Ca. 1928 wood frame bungalow. One of the best examples of the Craftsman genre in the area.	Private

COUNTY: COLBERT	RESOURCE HISTORIC NAME SURVEY NUMBER	LOCATION	THEME	REMARKS	OWNER
	SHEFFIELD RAILROAD DEPOT	Shop Pike, Sheffield	River	Listed on the Alabama Register. The 1948 structure is the only surviving structure in town related to Sheffield's railroad industry.	Private
	SHEFFIELD RESIDENTIAL HISTORIC DISTRICT	Sheffield, 10 <sup>th</sup> St. Montgomery Ave., Park Blvd., Riverside	River	Listed on the National Register. The district encompasses 802 buildings dating from 1886-1952.	Local; Multiple Private
	STUTTS GROCERY STORE	Intersection of SR 133 and Hwy 20, Muscle Shoals Vicinity	River	NRHP Eligible. Ca. 1945 rural grocery store is example of a rural store and roadside attraction that rose up to address growing automobile use.	Private

COUNTY: COLBERT	RESOURCE HISTORIC NAME SURVEY NUMBER	LOCATION	THEME	REMARKS	OWNER
	TOWN CREEK BATTLEFIELD	Near Town Creek	River	NRHP Eligible. Ca. 1863 site includes 4 bivouac areas, 1 bivouac / picket line, 1 battle line, 1 railroad bridge site, and 1 railroad bed. Part of General Dodge's orders were to destroy the Memphis and Charleston Railroad from here.	
	TUSCUMBIA HISTORIC DISTRICT	N. & E. Commons, 8th St. and Spring Rd	River	Listed on the National Register. Encompasses 640 structures from ca. 1820-1970.	Federal; Local; Multiple Private
	TUSCUMBIA HISTORIC DISTRICT	N. & E. Commons, 8th St. and Spring Rd	River	Listed on the National Register. Encompasses 640 structures from ca. 1820-1970.	Federal; Local; Multiple Private

COUNTY: COLBERT	RESOURCE HISTORIC NAME SURVEY NUMBER	LOCATION	THEME	REMARKS	OWNER
	WILSON DAM	Near Florence on the Tennessee River	River	Listed on the National Register. President Woodrow Wilson approved the dam to supply electricity to two nitrate plants for manufacture of ammunition and explosives for the war effort.	Federal
	WINSTON, WILLIAM, HOUSE	Tuscumbia, North Commons Street,	River	Listed on the National Register. A ca. 1835-1840 Georgian-style, brick dwelling of the Winston family, prominent settlers here.	Local

COUNTY: COLBERT	RESOURCE HISTORIC NAME SURVEY NUMBER	LOCATION	THEME	REMARKS	OWNER
	1890 CROSS GABLE COTTAGE	US Hwy 20/72 Alt, Lime Kiln/Margerum	River	NRHP Eligible. Ca. 1890 wood frame cross gable cottage is rare example of once common form of shelter for tenant farmers.	Private
	1905 CENTRAL PASSAGE COTTAGE	Off County Line Road, Whiteoak, Leighton	River	NRHP Eligible. Ca. 1905 central passage cottage	Private
	1905 SADDLEBAG	SR-133, Muscle Shoals Vicinity	River	NRHP Eligible. This ca. 1905 saddlebag residence is a rare example in the area.	Private
	1920 COMMERCIAL BUILDING	US Hwy 20/72 Alt, Lime Kiln/Margerum	River	NRHP Eligible. Ca. 1920 commercial building representa- tive of typical rural commercial building.	
	1930 BUNGALOW	104 Euclid Ave, Muscle Shoals Vicinity	River	NRHP Eligible. Ca. 1930 wood frame bungalow. One of the best examples of the Craftsman genre in the area.	Private

COUNTY: COLBERT	RESOURCE HISTORIC NAME SURVEY NUMBER	LOCATION	THEME	REMARKS	OWNER
	1940 MINIMAL TRADITIONAL COTTAGE	US Hwy 20/72 Alt, Lime Kiln/Margerum	River	NRHP Eligible. Ca. 1940 minimal tradi- tional cottage and associated outbuild- ings.	Private
	1945 GAS STATION	US Hwy 20/72 Alt, Lime Kiln/Margerum	River	NRHP Eligible. Ca. 1945 commercial building represents a typical mid-20 <sup>th</sup> cen- tury gas station.	Private

