

## CHAPTER 5

### 5. LIST OF PREPARERS

**Tyler Baker - Surface Water Review**

Limnologist, TVA Aquatic Monitoring and Management, Chattanooga, Tennessee

**Evelyn Benton (retired) - Maps and Data Management**

Watershed Information Technician, TVA Land and Water Stewardship, Lenoir City, Tennessee

**Chellie J. Cook - Clerical Assistance**

Business Support Representative, TVA Land and Water Stewardship, Lenoir City, Tennessee

**Stephanie Chance (former TVA employee) - Sensitive Aquatic Species Review**

Aquatic Endangered Species Biologist, TVA Heritage Resources, Knoxville, Tennessee

**Gary Chappelle - Land Use and 26a Analysis**

Land Use Representative, TVA Land and Water Stewardship, Lenoir City, Tennessee

**Patricia Cox - Sensitive Plant Species Review**

Botanist, TVA Heritage Resources, Knoxville, Tennessee

**Mike Crowson (retired) - Team Management and Project Review**

Watts Bar/Clinch Watershed Manager, TVA, Lenoir City, Tennessee

**Alisa Crutchfield (retired) - Land Use Review**

Watershed Representative, TVA, Lenoir City, Tennessee

**Mark Degnan (retired) - Land Use and 26a Analysis**

Land Use Representative, TVA Watershed Operations, Lenoir City, Tennessee

**Michael Dobrogrosz - Past Project Manager, Watts Bar Reservoir Land Plan**

Project Manager, TVA Land and Water Stewardship, Knoxville, Tennessee

**James Eblen - Socioeconomics and Environmental Justice Analysis**

Economist, TVA Contractor, Knoxville, Tennessee

**Joe Feeman (retired) - Project Manager, Integrated Resources Management**

Forester, TVA Land and Water Stewardship, Lenoir City, Tennessee

**Steven Clay Guerry - Recreation Resources Analysis**

Recreation Representative, TVA Land and Water Stewardship, Lenoir City, Tennessee

**Ella Christina Guinn - Technical Staff Coordination**

Project Control Specialist, TVA Environmental Services and Programs, Knoxville, Tennessee

**Nancy Greer - Watershed Team Management and Project Review**

Watts Bar/Clinch Watershed Manager, TVA Land and Water Stewardship, Lenoir City, Tennessee

**David B. Harrell - Recreation Resources Analysis**

Land Use Representative, TVA Land and Water Stewardship, Lenoir City, Tennessee

**Hill Henry - Sensitive Animal Species Review**

Endangered Species Specialist, TVA Heritage Resources, Knoxville, Tennessee

**A. Eric Howard - Cultural Resources Review**

Archaeologist, TVA Cultural Resources, Knoxville, Tennessee

**George Humphrey (retired) - Recreation Resources Analysis**

Land Use Specialist Recreation, TVA, Lenoir City, Tennessee

**Wesley James - Terrestrial Ecology Review**

Wildlife Biologist, TVA Land and Water Stewardship, Lenoir City, Tennessee

**Jimmie Kelsoe (retired) - Prime Farmland Review**

Environmental Scientist, TVA, Muscle Shoals, Alabama

**Carolyn Koroa - Navigation Review**

Senior Geographic Analyst, Navigation, TVA River Operations, Knoxville, Tennessee

**Scott Ledford - Land Use and 26a Analysis**

Land Use Representative, TVA Land and Water Stewardship Lenoir City, Tennessee

**Catherine Mackey - Parcel Descriptions**

Project Manager, TVA Office of Environment and Research, Knoxville, Tennessee

**Mark McNeely - Document Layout and Publishing Coordinator**

Program Administrator, TVA Office of Environment and Research, Knoxville, Tennessee

**Alissa MacMahan (former TVA employee) - Maps**

Watershed Representative, TVA, Lenoir City, Tennessee

**Paul A. Mays - Prime Farmland Review**

Environmental Scientist, TVA Research and Technology Applications, Knoxville, Tennessee

**Roger Milstead - Floodplains and Flood Risk Review**

Manager, Flood Risk and Data Management, TVA River Operations, Knoxville, Tennessee

**Jason M. Mitchell - Managed Areas and Sensitive Ecological Sites Review and Technical Editing**

Natural Areas Biologist, TVA Heritage Resources, Knoxville, Tennessee

**Kate E. Morelock (former TVA employee) - Recreation Resources Analysis**

Recreation Representative, TVA, Lenoir City, Tennessee

**Norris Neilson (retired) - Air Quality Review**

Meteorologist, TVA, Muscle Shoals, Alabama

**Donna Norton - Land Use and Planning Analysis**

Manager, TVA Land and Water Stewardship, Lenoir City, Tennessee

**Chett Peebles - Visual Resources Review**

Senior Landscape Architect, TVA Environmental Services and Programs, Knoxville, Tennessee

**Kim Pilarski-Brand - Wetlands Review**

Senior Wetland Biologist, TVA Heritage Resources, Knoxville, Tennessee

**Erin Pritchard - Project Manager, Watts Bar Reservoir Land Plan**

Project Manager, TVA Environmental Services and Programs, Knoxville, Tennessee

**Helen Rucker - Land Use Analysis**

NEPA Manager, TVA NEPA Resources, Knoxville, Tennessee

**Peter Scheffler (retired) - Socioeconomics and Environmental Justice Analysis**

NEPA Specialist, TVA NEPA Resources, Knoxville, Tennessee

**Edwin Scott (retired) - Aquatic Ecology Review**

Aquatic Biologist, TVA Heritage Resources, Knoxville, Tennessee

**Russell Smith - Technical Staff Coordination**

Project Control Specialist, TVA Land and Water Stewardship, Knoxville, Tennessee

**Charles Tichy (retired) - Historic Structures Review**

Historic Architect, TVA Cultural Resources, Knoxville, Tennessee

**Richard L. Toennisson - NEPA Project Management**

NEPA Specialist, TVA NEPA Resources, Knoxville, Tennessee

**Jan Thomas - Managed Areas and Sensitive Ecological Sites Review**

Natural Areas Specialist, TVA Contractor Heritage Resources, Knoxville, Tennessee

**Alan Trently (former TVA contractor) - Sensitive Terrestrial Species Review**

Terrestrial Zoologist, TVA Contractor Heritage Resources, Knoxville, Tennessee

**Elizabeth Upchurch - Water Quality Review**

Watershed Resource Representative, TVA Land and Water Stewardship, Lenoir City, Tennessee

**James F. Williamson - Analysis and Text Editing**

NEPA Specialist, TVA NEPA Resources, Knoxville, Tennessee

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## CHAPTER 6

### 6. LIST OF AGENCIES, ORGANIZATIONS, AND PERSONS TO WHOM COPIES ARE SENT

#### Federal Agencies

Dr. Lee A. Barclay, Field Supervisor  
U.S. Fish and Wildlife Service  
446 Neal Street  
Cookeville, TN 38501

Lt. Col. Steven J. Roemhildt  
U.S. Army Corps of Engineers  
Nashville District  
Post Office Box 1070  
Nashville, TN 37202-1070

Mr. Ron Gatlin, Chief  
U.S. Army Corps of Engineers  
Regulatory Branch  
3701 Bell Road  
Nashville, TN 37214

Mr. Phil Campbell, Unit Manager  
National Park Service, Obed Wild  
and Scenic River  
Post Office Box 429  
Wartburg, TN 37887

Ms. Anne J. Zimmerman  
U. S. Forest Service  
Cherokee National Forest  
Post Office Box 2010  
Cleveland, TN 37320

Mr. Gerald G. Boyd, Manager  
U. S. Department of Energy  
Oak Ridge Office  
Post Office Box 2001  
Oak Ridge, TN 37830

Mr. Bob Nelson  
U.S. Coast Guard  
Post Office Box 12406  
Knoxville, TN 37912

Mr. George Frank  
Knoxville Export Assistance Center  
U.S. Department of Commerce  
601 West Summit Hill Drive  
Knoxville, TN 37902

#### State Agencies

Douglas J. Delaney, Director  
Environmental Planning and Permits Division  
Tennessee Department of Transportation  
Suite 900, James K. Polk Building  
505 Deaderick Street  
Nashville, TN 37243-0334

Mr. Terry Oliver  
Tennessee Department of Agriculture  
Ellington Agricultural Center  
Post Office Box 40627  
Nashville, TN 37204

Mr. Mathew Kisber, Commissioner  
Tennessee Department of Economic and  
Community Development  
312 Eighth Ave  
11th Floor Tennessee Tower  
Nashville, TN 37243

Mr. Mr. Patrick McIntyre,  
State Historic Preservation Officer  
Tennessee Historical Commission  
2941 Lebanon Road  
Nashville, TN 37243-0442

Mr. Robert M. Todd  
Tennessee Wildlife Resources Agency  
Post Office Box 40747  
Nashville, TN 37204-0747

Mr. Terrence Bobrowski  
East Tennessee Development District  
P. O. Box 19806  
Knoxville, TN 37939-2806

Mr. Hale Booth  
Southeast Tennessee Development  
District  
P. O. Box 4757  
Chattanooga, TN 37405

Mr. David Owensby  
Tennessee Department of Environment  
and Conservation  
Environmental Policy Office  
L & C Tower, 21st Floor  
401 Church Street  
Nashville, TN 37243-1530

Mr. Reggie Reeves  
Tennessee Department of Environment  
and Conservation  
Division of Natural Heritage  
8th Floor, L&C Tower  
401 Church Street  
Nashville, TN 37243

Mr. Mark Tummons  
Tennessee Department of Environment  
and Conservation  
Div. of Recreation and Education Services  
10th Floor, L&C Tower  
401 Church Street  
Nashville, TN 37243

Mr. Paul Davis  
Tennessee Department of Environment  
and Conservation  
Division of Water Pollution Control  
7th Floor, L&C Tower  
401 Church Street  
Nashville, TN 37243

Mr. Barry Stephens  
Tennessee Department of Environment  
and Conservation  
Division of Air Pollution Control  
9th Floor, L&C Tower  
401 Church Street  
Nashville, TN 37243

Mr. Ron Hammontree  
Tellico Reservoir Development Agency  
59 Excellent Way  
Vonore, TN 37885

Mr. Allen Neel  
East Tennessee Economic  
Development Agency  
Suite 202, 10215 Technology Drive  
Knoxville, TN 37932

Ms. Beth Phillips  
Tennessee Department of Economic and  
Community Development  
Suite 202, 10215 Technology Drive  
Knoxville, TN 37932

Mr. James Fyke, Commissioner  
Tennessee Department of Environment  
and Conservation  
L & C Tower, 21st Floor  
401 Church Street  
Nashville, TN 37243-0435

Mr. Gerald Nicely, Commissioner  
Tennessee Department of Transportation  
James K. Polk Building, Suite K  
505 Deaderick Street  
Nashville, TN 37243-0349

Mr. Will Callaway, Executive Director  
Tennessee Environmental Council  
One Vantage Way, Suite D-105  
Nashville, TN 37228

#### **Local Agencies and Private Organizations**

Ms. Betsy Peterson  
Oak Ridge and Area Girl Scouts  
115 Amanda Drive  
Oak Ridge, TN 37830

Maureen O'Connell, Director  
Save Our Cumberland Mountains  
Post Office 479  
Lake City, TN 37769

Mr. Mike Butler, Executive Director  
Tennessee Wildlife Federation  
300 Orlando Avenue  
Nashville, TN 37909-3200

Ms. Dana Pittman  
Tennessee Land Trust  
1510 Bailey Morrison Drive  
Somerville, TN 38068

Mr. Rick Gehrke  
Cherokee Group of Sierra Club  
9004 Wellthor Circle  
Soddy Daisy, TN 37379

Ms. Michele Myers, Recreation Director  
Tennessee Marina Association  
Post Office Box 298  
Kuttawa, KY 42055

Mr. Wilker Hassler  
Friends of Watts Bar Lake  
480 Pine Ridge Circle  
Crossville, TN 38555

Ms. Liz Dixon  
Tennessee State Chapter of Sierra Club  
2021 21st Avenue, S., Suite 436  
Nashville, TN 37212

Mr. Jefferson Keel, Lt. Governor  
The Chickasaw Nation Headquarters  
Post Office Box 1548  
Ada, OK 74821

Mr. Chance Finegan, President  
CHS SPEAK, the Campus Greens  
1710 Zeb Warren Road  
Cookeville, TN 38506

Ms. Kim K. Denton, CECd  
Oak Ridge Economic Partnership  
1400 Oakridge Turnpike  
Oak Ridge, TN 37830

Mr. Bill Clabough  
Foothills Land Conservancy  
307 South Washington Street  
Maryville, TN 37804

Ms. Greta Stoutt Ownby, Executive VP  
Oak Ridge Chamber of Commerce  
1400 Oak Ridge Turnpike  
Oak Ridge, TN 37830

Mr. Josh Collins, Director  
Parks and Recreation, City of Oak Ridge  
Post Office Box 1  
Oak Ridge, TN 37831

Mrs. Dale D. Powers, Director  
Office of Family Life and Adult Christian  
Living, Diocese of Knoxville  
Post Office Box 11127  
Knoxville, TN 37939

Mr. Al Guidry  
Atomic City Sportsman Club  
Post Office Box 5591  
Oak Ridge, TN 37831

Ms. Sandra K. Goss, Executive Director  
Tennessee Citizens for Wilderness  
Planning  
130 Tabor Road  
Oak Ridge, TN 37830

**Individuals Notified That the Final EIS is Available:**

Roger D. Aigner, Harriman, Tenn.  
Mike Albertson, Rockwood, Tenn.  
Brian and Wendy Arden, Knoxville, Tenn.  
Donna Ashby, Kingsport, Tenn.  
Margaret Bacon, Kingston, Tenn.  
Stephen E. Bacon, Kingston, Tenn.  
Jane Bailey, Ten Mile, Tenn.  
Jim Baldwin, Spring City, Tenn.  
Jean Bangham, Oak Ridge, Tenn.  
William E. Barber, Spring City, Tenn.  
Don Barger, Norris, Tenn.

Amanda Branch, Knoxville, Tenn.  
Paul Bartizal, Spring City, Tenn.  
Regina Batuk, Spring City, Tenn.  
George F. Baungartner, Ten Mile, Tenn.  
John Baxter, Harriman, Tenn.  
Shelly Beasley, Spring City, Tenn.  
C. F. Beets, Knoxville, Tenn.  
Vickie Bell, Ten Mile, Tenn.  
Richard Berry, Knoxville, Tenn.  
V. Binder, Meigs County, Tenn.  
Scottie Boles, Rockwood, Tenn.

Rhonda Bogard, Oak Ridge, Tenn.  
James D. Boyd, Ten Mile, Tenn.  
Stan Boyd, Hermitage, Tenn.  
Steve Brooks, Knoxville, Tenn.  
Linda Brown, Spring City, Tenn.  
Robin Burchfield, Rogersville, Ala.  
Chris Burkhart, Knoxville, Tenn.  
Mary H. Burney, Kingston, Tenn.  
Gretchen Byrge, Oliver Springs, Tenn.  
Glenn and Phyllis Cada, Knoxville, Tenn.  
Jim and Judy Callen, Spring City, Tenn.  
Mark Campen, Knoxville, Tenn.  
David Carden, Lake City, Tenn.  
Debra J. S. Carpenter, Powell, Tenn.  
Diane Cishel, Kingsport, Tenn.  
Kathy Cisson, Rockwood, Tenn.  
Carol T. Coffey, Knoxville, Tenn.  
Una Coffman, Kingston, Tenn.  
Nathan W. Cole, Rockwood, Tenn.  
Ross L. Cole, Rockwood, Tenn.  
David Collins, Knoxville, Tenn.  
Josh Collins, Dalton, GA  
Kay Comer, Clinton, Tenn.  
Kristin Condict, Nashville, Tenn.  
Greg Cooper, Clinton, Tenn.  
Eugene F. Corcoran, Jr., Spring City, Tenn.  
Steward Coulter, Tullahoma, Tenn.  
Vivian Crump, Dalton, GA  
Virginia Dale, Oak Ridge, Tenn.  
Don and Mary Davis, Kingston, Tenn.  
Tom Davis, Dayton, Tenn.  
Bill Dean, Kingston, Tenn.  
Mr. and Mrs. Don Denuyl, Ten Mile, Tenn.  
Larry C. DeLoach, Jonesborough, Tenn.  
Romney Dickinson, Crossville, Tenn.  
Mary Lynn Dobson, Rockwood, Tenn.  
Janelle Douglas, Georgia  
Tracey Edgemor, Decatur, Tenn.  
Bruce Eltzroth, Kingston, Tenn.  
Justin Evans, Knoxville, Tenn.  
Mr. and Mrs. Art Ewing, Monteagle, Tenn.  
William J. Farnham, Knoxville, Tenn.  
Joe Ferguson, Signal Mountain, Tenn.  
Danny and Robert Fischer, Lenoir City,  
Tenn.  
Jim Foster, Spring City, Tenn.  
Mary Garrison, Spring City, Tenn.  
Jean Gauger, Knoxville, Tenn.

Jerry C. Gilbert, Johnson City, Tenn.  
Charles W. Goodman, Kingston, Tenn.  
David E. Greenwood, Knoxville, Tenn.  
Ellen M. Greenwood, Knoxville, Tenn.  
Suzanna Griffin, Kingston, Tenn.  
Linda Groome, Harriman, Tenn.  
Sandra Goss, Oak Ridge, Tenn.  
Tim Gultrie, Spring City, Tenn.  
Terry A. Gupton, Harriman, Tenn.  
James E. Hampton, Spring City, Tenn.  
Dorothy R. Harris, Knoxville, Tenn.  
Gary S. Hartman, Oak Ridge, Tenn.  
Frederick D. Harvey, Kingston, Tenn.  
Frances S. Hassler, Crossville, Tenn.  
Doris Hassler, Crossville, Tenn.  
Morris Hassler, Lenoir City, Tenn.  
Terry Hassler, Crossville, Tenn.  
Steve Hassler, Crossville, Tenn.  
Marilyn E. Head, Kingston, Tenn.  
J. Fred Heitman, Oak Ridge, Tenn.  
Shirley A. Henich, Ten Mile, Tenn.  
Charlie Hensley, Oak Ridge, Tenn.  
Frank Hensley, Oak Ridge, Tenn.  
Ted Hitchens, Crossville, Tenn.  
Ron Higgs, Rockwood, Tenn.  
Jim Hines, Rockwood, Tenn.  
Roger A. Hinsdale, Spring City, Tenn.  
Gregory Hogue, Atlanta, GA  
Jane Howe, Oak Ridge, Tenn.  
Chad Hulette, Loudon, Tenn.  
Pat Hunsicher, Clinton, Tenn.  
Yetta Jager, Knoxville, Tenn.  
Pete James, Maryville, Tenn.  
Amanda Johnson, Seymour, Tenn.  
Dabeny Johnson, Oak Ridge, Tenn.  
James S. Johnson, Jr., Oak Ridge, Tenn.  
William J. Johnson, Lenoir City, Tenn.  
Mike Jolley, Spring City, Tenn.  
Emily Jones, Knoxville, Tenn.  
Jan Jones, Jonesborough, Tenn.  
Ken Jones, Decatur, Tenn.  
Lenny Junkett, Lenoir City, Tenn.  
Steve Kennel, Kingston, Tenn.  
Cindy Kendrick, Knoxville, Tenn.  
Graham Kimbrough, Meigs County, Tenn.  
William Kirk, Ten Mile, Tenn.  
Cheryl Kohlbuesir, Oak Ridge, Tenn.  
Frank Kolski, Kingston, Tenn.

Marshall Koon, Kingston, Tenn.  
 Robert Kopala, Ten Mile, Tenn.  
 John Kueck, Knoxville, Tenn.  
 B. R. Ladd, Kingston, Tenn.  
 Clay and Nancy Landers, Kingston, Tenn.  
 Melissa M. Lange, Knoxville, Tenn.  
 Gerald Largen, Kingston, Tenn.  
 Jim La Rue, Kingston, Tenn.  
 Janice and Walter Laughrey, Spring City,  
 Tenn.  
 James Matthew Ledford, Knoxville, Tenn.  
 Mark Leuox, Harriman, Tenn.  
 Eddie Lisi, Athens, Tenn.  
 JoAnne Logan, Knoxville, Tenn.  
 Charlie Lowery, Athens, Tenn.  
 Michael Lowrey, Flat Rock, Ala.  
 James Lummus, Knoxville, Tenn.  
 Bob Lundsford, Rockwood, Tenn.  
 Donna Lynch, Knoxville, Tenn.  
 William McAllister, Kingston, Tenn.  
 Joseph A. McCall, Niota, Tenn.  
 Laura McCall, Lynchburg, Tenn.  
 Michael McCall, Niota, Tenn.  
 James W. McCarter, Hixson, Tenn.  
 Wallace McClure, Jr., Knoxville, Tenn.  
 Barbara McCoin, Swan Pond, Tenn.  
 Michael McCollum, Knoxville, Tenn.  
 Faye McDonald, Oliver Springs, Tenn.  
 Jimmy McGinness, Chattanooga, Tenn.  
 Megan and Janet B. McKenzie, Decatur,  
 Tenn.  
 James J. McNabb, Rockwood, Tenn.  
 Wayne McNeese, Spring City, Tenn.  
 Josh McManus, Rockwood, Tenn.  
 Dixie Mason, Kingston, Tenn.  
 Ed Mason, Kingston, Tenn.  
 Steve Mayo, Spring City, Tenn.  
 Charlie Mead, Rockwood, Tenn.  
 Darryl Meadows, Rockwood, Tenn.  
 Katherine and James Medlock, Knoxville,  
 Tenn.  
 Darla Miller, Oak Ridge, Tenn.  
 Margaret Mills, Rockwood, Tenn.  
 Billy Minser, Knoxville, Tenn.  
 Ernestine L. Mitchell, Kingston, Tenn.  
 Martha MoneyMaker, Clinton, Tenn.  
 Vanessa Morel, Knoxville, Tenn.  
 Roger Morris, Lebanon, Tenn.  
 Darrell and Lana Morken, Rockwood, Tenn.  
 Steve Moulton, Ten Mile, Tenn.  
 C. D. Mounger, Kingston, Tenn.  
 Catherine Murray, Johnson City, Tenn.  
 Dan Myers, Oak Ridge, Tenn.  
 Kelly Myers, Oak Ridge, Tenn.  
 Franklin V. Narbert, Ten Mile, Tenn.  
 Wolf Nargeli, Knoxville, Tenn.  
 Joan Nelson, Oak Ridge, Tenn.  
 Loren and Judith Nelson, Harriman, Tenn.  
 William A. Newcomb, Harriman, Tenn.  
 Tom Okulczyk, Rockwood, Tenn.  
 Gail Okulczyk, Rockwood, Tenn.  
 Robert Olszewski, Oliver Springs, Tenn.  
 Barbra Guettner Oody, Kingston, Tenn.  
 Earl Parker, Harriman, Tenn.  
 Diane Paxson, Bernville, Pa.  
 Joe Payne, New Tazewell, Tenn.  
 Mike Pazich, Kingston, Tenn.  
 Elizabeth K. Pease, Oliver Springs, Tenn.  
 George Peeler, Knoxville, Tenn.  
 Dana Peterka, Rockwood, Tenn.  
 Natalie Pheasant, Knoxville, Tenn.  
 Wendell L. Phillips, Spring City, Tenn.  
 James W. Pinkerton, Kingston, Tenn.  
 Jerry Poe, Spring City, Tenn.  
 Margaret Poole, Rockwood, Tenn.  
 Branden J. Ragland, Birchwood, Tenn.  
 Steve Randolph, Dayton, Tenn.  
 Rebecca Rayborn, Oliver Springs, Tenn.  
 David Reichle, Kingston, Tenn.  
 David Reister, Knoxville, Tenn.  
 Angela Ricketson, Rockwood, Tenn.  
 Axel C. Ringe, New Market, Tenn.  
 Everett Robertson, Dayton, Tenn.  
 Cliff Rodgers, Andersonville, Tenn.  
 Hira Roger, Knoxville, Tenn.  
 Lisa Rolik, Andover, Kans.  
 Nelson Ross, Jefferson City, Tenn.  
 Liane B. Russell, Oak Ridge, Tenn.  
 Martha Salk, Powell, Tenn.  
 Dawn Sagonias, Knoxville, Tenn.  
 Wayne H. Schacher, Clinton, Tenn.  
 Don Scruggs, Kingston, Tenn.  
 Julia H. Scruggs, Kingston, Tenn.  
 T. J. Selby, Crossville, Tenn.  
 Dinah L. Sexton, Knoxville, Tenn.  
 Fred Shanton, Powell, Tenn.

## Watts Bar Reservoir Land Management Plan

Iris D. Shelton, Rockwood, Tenn.  
Kenneth Shepard, Kingston, Tenn.  
Tom Sherrod, Kingston, Tenn.  
Sarah Shinpock, Knoxville, Tenn.  
Mark Shipley, Knoxville, Tenn.  
William H. Skelton, Knoxville, Tenn.  
Len Slack, Deer Lodge, Tenn.  
Eric Slater, Kingston, Tenn.  
Ellen Smith, Oak Ridge, Tenn.  
Germaine Smith, Harriman, Tenn.  
Alexander Solomon, Spring City, Tenn.  
Linda Spencer, Spring City, Tenn.  
Gargat G. Spore, Oak Ridge, Tenn.  
Lisa Starbuck, Knoxville, Tenn.  
Phil Starck, Louisville, Tenn.  
Ed Staten, Spring City, Tenn.  
Judy Staten, Spring City, Tenn.  
Barry R. Stephens III, Nashville, Tenn.  
Tena Stevens, Burlington, Kans.  
David Stief, Kingston, Tenn.  
John Sublett, Rockwood, Tenn.  
Jack Suggs, Oak Ridge, Tenn.  
Jim Talley, Spring City, Tenn.  
JoAnn Thompson, Oak Ridge, Tenn.  
Thom Thompson, Ten Mile, Tenn.  
Robert M. Todd, Nashville, Tenn.  
Dennis Tumlin, Dayton, Tenn.  
Mark Tummons, Nashville, Tenn.  
Karen Tustin, Kingston, Tenn.  
Bob Van Hook, Kingston, Tenn.  
Janet Vaughen, Knoxville, Tenn.  
Victor C. Vaughen, Knoxville, Tenn.  
Richard Vornehm, Knoxville, Tenn.  
Raymond Walker, Dayton, Tenn.  
Barbara A. Walton, Oak Ridge, Tenn.  
Katie Warner, Maryville, Tenn.  
Jamie Warren, Knoxville, Tenn.  
David Watson, Knoxville, Tenn.  
Melissa J. Weaver, Oak Ridge, Tenn.  
Christopher Weisberg, Knoxville, Tenn.  
William Wenzel, Bogertown, Pa.  
Donna Whestbee, Oliver Springs, Tenn.  
Dick Whiteman, Rockwood, Tenn.  
Donald (Pete) Williams, Spring City, Tenn.  
Ryan Wishart, Knoxville, Tenn.  
Linda White, Kingston, Tenn.  
Maxine Wiggins, Signal Mountain, Tenn.  
W. F. Wiggins, Signal Mountain, Tenn.

Bill Wright, Harriman, Tenn.  
Lynn and Paul Wright, Ten Mile, Tenn.  
William Wright, Harriman, Tenn.  
Jess Wynn, Wartburg, Tenn.  
Janice R. Young, Johnson City, Tenn.  
Ruth K. Young, Oak Ridge, Tenn.

## CHAPTER 7

### 7. SUPPORTING INFORMATION

#### 7.1. Literature Cited

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## 7.2. Glossary of Terms

**100-year floodplain** - The area inundated by the 1 percent annual chance (or 100-year) flood.

**agricultural licensing** - Some parcels or portions of parcels designated for other purposes or uses may also be suitable for interim agricultural licensing. These parcels have been identified using the criteria contained in TVA's agriculture instruction. Normal tenure for a TVA agricultural license is five years. Land with extreme erosion potential may not be licensed for agricultural use unless erosion and sediment controls, including the use of BMPs, can be successfully implemented. Further investigation and/or mitigation of adverse impacts to natural or cultural resources may be required prior to approval of license agreements.

**benthic** - Refers to the bottom of a stream, river, or reservoir.

**controlled burn** - A managed fire to remove vegetation for the benefit of silviculture or wildlife management.

**cumulative impacts** - Impacts which result from the incremental impact of the action when added to other past, present, and reasonably foreseeable actions, regardless of what agency or person undertakes such actions (40 CFR 1508.7).

**dam reservation** - Lands generally maintained in a park-like setting by TVA to protect the integrity of the dam structure, hydroelectric facilities, and navigation lock. The reservation also provides for public visitor access to the TVA dam facilities and recreation opportunities, such as public boat access, bank fishing, camping, picnicking, etc.

**direct impacts** - Effects which are caused by the action and occur at the same time and place (40 CFR 1508.4).

**dispersed recreation** - Recreation of an informal nature such as hunting, hiking, biking, bird watching, photography, primitive camping, bank fishing, and picnicking, and etc that occur on TVA managed public land. These activities are not associated with developed facilities although some improvements may occur for access, health and safety, or to protect the environment.

**dissolved oxygen** - The oxygen dissolved in water, necessary to sustain aquatic life. It is usually measured in milligrams per liter or parts per million.

**drawdown** - Area of reservoirs exposed between full summer pool and minimum winter pool levels during annual drawdown of the water level for flood control.

**dredging** - The removal of material from an underwater location, primarily for deepening harbors and waterways.

**embayment** - A bay or arm of the reservoir.

**emergent wetland** - Wetlands dominated by erect, rooted herbaceous plants, such as cattails and bulrushes.

**endangered species** - A species in danger of extinction throughout all or a significant portion of its range or territory. Endangered species recognized by the ESA or similar state legislation have special legal status for their protection and recovery.

**floodplains** - Any land area susceptible to inundation by water from any source by a flood of selected frequency. For purposes of the National Flood Insurance Program, the

floodplain, as a minimum, is that area subject to a 1 percent or greater chance of flooding (100-year flood) in any given year.

**flowage easement tracts** - Privately owned lakeshore properties where TVA has (1) the right to flood the land as part of its reservoir operations, (2) no rights for vegetation management, and (3) the authority to control structures, under Section 26a of the TVA Act.

**fragmentation** - The process of breaking up a large area of relatively uniform habitat into one or more smaller, disconnected areas.

**hydrologic unit codes** - Hydrologic unit codes (HUCs) are cataloging units assigned to each watershed by the U.S. Geological Survey for the purpose of assessment and management activities.

**indirect impacts** - Effects which are caused by the action and are later in time or farther removed in distance but are still reasonably foreseeable (40 CFR 1508.4).

**Important Bird Areas** - The Important Bird Area Program is part of an international effort to identify the most critical bird habitat. TWRA has partnered with the National Audubon Society to compile a list of sites in Tennessee.

**macroinvertebrates** - Bottom-dwelling aquatic animals without vertebrates, such as mollusks and arthropods.

**mainstream reservoirs** - Impoundments created by dams constructed across the Tennessee River.

**marginal strip** - The narrow strip of land owned by TVA between the water's edge and the adjoining private property, on which the property owner may construct private water use facilities upon approval of plans by TVA.

**maximum shoreline contour** - An elevation typically 5 feet above the top of the gates of a TVA Dam. It is often the property boundary between TVA marginal strip property and adjoining private property.

**National Ambient Air Quality Standards** - Uniform, national air quality standards established by the USEPA that restrict ambient levels of certain pollutants to protect public health (primary standards) or public welfare (secondary standards). Standards have been set for ozone, carbon monoxide, particulates, sulfur dioxide, nitrogen, nitrogen dioxide, and lead.

**nonattainment areas** - Those areas of the U.S. that do not meet National Ambient Air Quality Standards as determined by measurements of air pollutant levels.

**overbank** - Refers to the reservoir water area outside the original river and stream channels; typically more shallow and preferred foraging areas for fishing birds and mammal species.

**overstory** - The tallest and dominant community of trees of a forest.

**physiographic provinces** - General divisions of land with each area having characteristic combinations of soil materials and topography.

**plan tract** - A numbered parcel of TVA fee-owned land that, prior to the plan, has had no long-term commitments affecting future land uses as assigned through the reservoir land planning process.

**prime farmland** - Generally regarded as the best land for farming, these areas are flat or gently rolling and are usually susceptible to little or no soil erosion. Prime farmland produces the most food, feed, fiber, forage, and oil seed crops with the least amount of fuel, fertilizer, and labor. It combines favorable soil quality, growing season, and moisture supply and, under careful management, can be farmed continuously and at a high level of productivity without degrading either the environment or the resource base. Prime farmland does not include land already in or committed to urban development, roads, or water storage.

**riparian zone** - An area of land that has vegetation or physical characteristics reflective of permanent water influence. Typically this is a streamside zone or shoreline edge.

**riprap** - Stones placed along the shoreline for bank stabilization and other purposes.

**riparian** - The communities of plants and animals that occur within the influence of a stream, river, or body of water.

**riverine** - Having characteristics similar to a river.

**row crops** - Agricultural crops, such as corn, wheat, beans, cotton, etc., which are most efficiently grown in large quantities by planting and cultivating in lines or rows.

**Section 26a review process** - Section 26a of the TVA Act requires TVA review and approval of plans for obstructions, such as docks, fills, bridges, outfalls, water intakes, and riprap before they are constructed across, in or along the Tennessee River and its tributaries. Applications for this approval are coordinated appropriately with TVA programs and USACE. USACE issues a joint public notice for those applications that are not covered by a USACE nationwide, general, or regional permit. The appropriate state water pollution control agency must also certify that the effluent from outfalls meets the applicable water quality standards.

**scrub-shrub** - Woody vegetation less than about 20 feet tall. Species include true shrubs, young trees, and trees or shrubs that are small or stunted because of environmental conditions.

**Shipper savings** - A standard metric for assessing the economic impact of inland navigation as mandated by the Office of Management and Budget. The dollar amount is equal to the cost of barge transportation subtracted from the next least costly mode of transportation, typically truck or rail.

**shoreline** - The line where the water of a TVA reservoir meets the shore when the water level is at the normal summer pool elevation.

**Shoreline Management Zone** - A barrier of permanent vegetation established or left undisturbed around a reservoir in order to buffer the adverse impacts resulting from development and increased human activity.

**significant cultural resources** - Some of the parcel descriptions state that “the parcel contains significant cultural resources” or that “cultural resource considerations may affect development of the parcel.” However, many of the parcel descriptions contain no reference to archaeological or other cultural resources. The lack of such references within a parcel description does not necessarily indicate that significant cultural resources do not exist. The use of any parcel for developmental purposes may require additional archaeological testing or mitigation of adverse impact to archaeological sites. The costs of required testing or mitigation would be the responsibility of the developer.

- stratification** - The seasonal layering of water within a reservoir due to differences in temperature or chemical characteristics of the layers.
- substrates** - The base or material to which a plant is attached and from which it receives nutrients.
- sufferance agreement** - The recordable documents used to allow unauthorized and impermissible structures encroaching on TVA land to remain at their present location, subject to specific terms and conditions, or until such time they are removed or destroyed.
- summer pool elevation** - The normal upper level to which the reservoirs may be filled. Where storage space is available above this level, additional filling may be made as needed for flood control.
- threatened species** - A species threatened with extinction throughout all or a significant portion of its range or territory. Threatened species recognized by the ESA or similar state legislation have special legal status for their protection and recovery.
- tributary reservoirs** - Impoundments created by dams constructed across streams and rivers that eventually flow into the Tennessee River.
- turbidity** - All the organic and inorganic living and nonliving materials suspended in a water column. Higher levels of turbidity affect light penetration and typically decrease productivity of water bodies.
- TVARAM** - TVA Rapid Assessment Method, a version of the Ohio Rapid Assessment Method designed specifically for the TVA region.
- understory** - The least dominant community of trees of a forest, consisting of shade tolerant species.
- upland** - The higher parts of a region, not closely associated with streams or lakes.
- wetlands** - As defined in *TVA Environmental Review Procedures*, "Wetlands are those areas inundated by surface or groundwater with a frequency sufficient to support and under normal circumstances do or would support a prevalence of vegetation or aquatic life that requires saturated or seasonably saturated soil conditions for growth and reproduction. Wetlands generally include swamps, marshes, bogs, and similar areas, such as sloughs, potholes, wet meadows, mud flats, and natural ponds.
- Wildlife Management Area (WMA)** - Land and/or water areas designated by state wildlife agencies, such as the Tennessee Wildlife Resources Agency, for the protection and management of wildlife. These areas typically have specific hunting and trapping regulations as well as rules regarding appropriate uses of these areas by the public.