

---

**CHAPTER 5 - LIST OF PREPARERS****Steven F. Amick**

Position: Civil Engineer, TVA River Operations  
Education: B.S., Civil Engineering  
Background: 29 years experience in hydraulic modeling and water resources;  
Registered Professional Engineer  
Contribution: Floodplains material, sediment transport modeling

**Larry G. Bray**

Position: Navigation Economist, TVA River Operations  
Education: Ph.D., Economics  
Background: 26 years experience in regional development and water  
resources  
Contribution: Economic analysis material

**J. Leo Collins**

Position: Botanist, TVA Environmental Stewardship and Policy (ES&P)  
Education: Ph.D., Plant Taxonomy, B.S., General Biology  
Background: 28 years in Environmental Assessment and NEPA compliance;  
33 years in southeastern flora  
Contribution: Terrestrial life and endangered species material

**Stanford E. Davis**

Position: Senior NEPA Specialist, TVA, ES&P, NEPA Services  
Education: B.S., Wildlife and Fisheries Science  
Background: 31 years experience in wildlife habitat and land management,  
site evaluation, environmental impact analysis and review  
requirements.  
Contribution: NEPA perspective, interagency coordination, and editing

**James H. Eblen**

Position: Economics Contractor, TVA River Operations  
Education: Ph.D., Economics; B.S., Business Administration  
Background: 39 years experience in economic analysis  
Contribution: Socioeconomics and Environmental Justice sections

**Nancy D. Fraley** (retired)

Position: Natural Areas Coordinator, TVA Resource Stewardship  
Education: M.S. Botany  
Background: 12 years experience in terrestrial vegetation assessment, rare plant inventory, and environmental education  
Contribution: Natural Areas material

**Steven J. Fraley** (retired)

Position: Aquatic Biologist, TVA Resource Stewardship  
Education: M.S., Zoology  
Background: 9 years experience in aquatic invertebrate and vertebrate biology and bioassessment techniques.  
Contribution: Aquatic life material

**Ella C. Guinn**

Position: Project Control Specialist, TVA, ES&P  
Education: M.S., Geography  
Background: 12 years experience in land use analysis, interpretation, and management  
Contribution: Managed Area material

**James R. Hagerman**

Position: Environmental Engineer, TVA, ES&P  
Education: M.S. and B.S., Agricultural Engineering; Registered Professional Engineer  
Background: 16 years experience in nonpoint source pollution and water quality and water resources;  
Contribution: Water Quality and sedimentation material

**David A. Hankins**

Position: Geographic Analyst, TVA Energy Research and Technology Applications  
Education: B.S., Fish and Wildlife Management  
Background: 20 years Geographic Information Services  
Contribution: Data analysis and map preparation

**T. Hill Henry**

Position: Senior Zoologist, TVA, ES&P  
Education: M.S., Zoology; B.S., Wildlife Biology  
Background: 17 years experience in zoology, monitoring terrestrial endangered species, and NEPA compliance  
Contribution: Terrestrial life and endangered species material

**George M. Humphrey** (retired)

Position: Land Use Specialist/Recreation, TVA Resource Stewardship  
Education: M.S., Recreation Resources Planning  
Background: 25 years in river and reservoir recreation planning  
Contribution: Recreation material

**John J. Jenkinson** (retired)

Position: Senior Malacologist, TVA Resource Stewardship  
Education: Ph.D., Zoology  
Background: 22 years experience in aquatic life and aquatic endangered species impact assessment  
Contribution: Project management, document organization, editing, and aquatic endangered species material

**Hank E. Julian** (retired)

Position: Hydrogeologist, TVA Energy Research and Technology Applications  
Education: M.S., Civil Engineering; Professional Engineer and Professional Geologist  
Background: 14 years experience in groundwater hydrology; Registered  
Contribution: Groundwater material

**Jimmie J. Kelsoe** (retired)

Position: Senior Environmental Scientist, TVA Energy Research & Technology Applications  
Education: B.S., Industrial Chemistry, Mathematics  
Background: 26 years experience in soil fertility, land reclamation, and waste utilization; 6 years experience in NEPA evaluations of farmland  
Contribution: Land use and prime farmland material

**Mark S. McNeely**

Position: Program Administrator, TVA Resource Stewardship  
Education: M.S., Education; B.S., Biological Sciences  
Experience: 6 years in environmental education; 11 years in resource stewardship  
Contribution: Document layout and publishing coordinator

**Roger A. Milstead**

Position: Manager, TVA Flood Risk and Data Management  
Education: B.S., Civil Engineering; Registered Professional Engineer  
Background: 30 years experience in floodplain and environmental impact evaluation  
Contribution: Background and alternatives descriptions, editing, floodplains material

**Jason M. Mitchell**

Position: Natural Areas Biologist, TVA, ES&P  
Education: M.P.A. (Environmental Policy); B.S., Wildlife and Fisheries Science  
Background: 13 years experience in natural resource planning and ecological assessment with emphasis on sensitive resources  
Contribution: Terrestrial wildlife material

**Danny E. Olinger**

Position: Archaeologist, TVA, ES&P  
Education: M.A., Anthropology  
Background: 33 years experience in archaeological field research and cultural resource management  
Contribution: Archaeological material

**Linda B. Oxendine** (retired)

Position: Senior NEPA Specialist, TVA Environmental Policy and Planning  
Education: Ph.D., Botany  
Background: 24 years experience in environmental education and environmental review requirements.  
Contribution: NEPA perspective, interagency coordination, and editing

**W. Chett Peebles**

Position: Visual Resources Contractor, TVA, ES&P  
Education: Bachelor of Landscape Architecture; Registered Landscape Architect  
Background: 18 years experience in land planning, site analysis, and design  
Contribution: Visual and aesthetic resource material

**Kim Pilarski**

Position: Senior Wetland Biologist, TVA, ES&P  
Education: M.S., Geography  
Background: 12 years experience in wetland regulation and assessment, water quality, and watershed assessment  
Contribution: Wetlands material

**Joseph E. Rose** (retired)

Position: Hydro Specialist, TVA River Operations  
Education: B.S., Chemical Engineering  
Background: 30 years experience in design, construction, and modifications of hydro, fossil, and nuclear power facilities; Registered Professional Engineer  
Contribution: Engineering aspects of dam modification alternatives

**Barbara A. Rosensteel** (retired)

Position: Wetlands Contractor, TVA Resource Stewardship  
Education: M.S., Environmental Science  
Background: 12 years experience in wetland delineation and water quality assessment, regulation, and mitigation.  
Contribution: Wetlands material

**Edwin M. Scott, Jr.**

Position: Aquatic Biologist, TVA, ES&P  
Education: M.S., Fisheries Biologist; B.S., Zoology  
Background: 30 years experience in fisheries biology/aquatic community assessment  
Contribution: Aquatic life material

**Charles R. Tichy**

Position: Historic Architect, TVA, ES&P  
Education: M.A., Historic Preservation; B.S., Architecture  
Background: 37 years experience in historic preservation; 26 years with TVA Cultural Resources  
Contribution: Historic structures material

**Carolyn L. Wells** (retired)

Position: Botany Contractor, TVA, ES&P  
Education: B.A., Biology  
Background: 8 years experience in botanical field research  
Contribution: Terrestrial plant material

**T. Margueritte Wilson**

Position: Environmental Restoration Specialist, TVA, ES&P  
Education: M.S. Civil Engineering  
Background: 13 years environmental engineering and hydrogeology;  
Registered Professional Geologist  
Contribution: Geology and reservoir sediment material

## CHAPTER 6 - SUPPORTING INFORMATION

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

#### **Federal Agencies**

Heinz J. Mueller, Chief  
Office of Environmental Assessment  
U.S. Environmental Protection Agency, Region 4  
Atlanta Federal Center  
61 Forsyth Street  
Atlanta, GA 30303-8960

Lt. Col. Byron G. Jorns  
U.S. Army Corps of Engineers  
Nashville District  
P.O. Box 1070  
Nashville, TN 37202-1070

#### **State Agencies**

J. Todd Kennedy  
North Carolina Department of  
Environment and Natural Resources  
Division of Water Quality  
1617 Mail Service Center  
Raleigh, NC 27699-1617

Herbert L. Harper, Executive Director and  
State Historic Preservation Officer  
Tennessee Historical Commission  
Tennessee Department of Environment and Conservation  
2941 Lebanon Road  
Nashville, TN 37243-0442

#### **Individuals**

Mr. & Mrs. Steve K. Alexander  
Greeneville, TN

Mr. & Mrs. Don C. Alexander  
Greeneville, TN

Ms. Vicky Alkire  
Greeneville, TN

Ms. Carol D. Allen  
Greeneville, TN

Ms. Teresa R. Allen  
Greeneville, TN

Mr. & Mrs. Kenneth Allen  
Greeneville, TN

Mr. Freddy Anderson  
Greeneville, TN

Mr. & Mrs. Darrell C. Anderson  
Greeneville, TN

Mr. John Andromidas  
Greeneville, TN

Mr. & Mrs. C.G. Armstrong  
Limestone, TN

Mrs. Denise Ashworth  
Greeneville, TN

Mr. & Mrs. Joseph W. Austin  
Greeneville, TN

Mr. & Mrs. Ronald Austin  
Afton, TN

Mr. Phillip Bachman  
Greeneville, TN

Mr. & Mrs. Clarence Bailey  
Erwin, TN

Ms. Lori Baker  
Greeneville, TN

Mr. Barry Bales  
Mosheim, TN

Mr. & Mrs. J.B. Baxley  
Greeneville, TN

Mr. Ronald E. Baxley  
Greeneville, TN

Ms. Kay Benjamin  
Greeneville, TN

Mr. Tom Bewley  
Greeneville, TN

Mr. & Mrs. Anthony Bewley  
Greeneville, TN

Mr. A. J. Bible  
Greeneville, TN

Mr. & Mrs. Matthew Bible  
Greeneville, TN

Mr. Alonzo Bird  
Greeneville, TN

Mr. Robert K. Bird  
Greeneville, TN

Mayor Robert K. Bird  
Tusculum, TN

Mr. Sammy Bird  
Greeneville, TN

Mr. Luster Bird  
Greeneville, TN

Mr. & Mrs. Doyle E. Bird  
Greeneville, TN

Mr. & Mars David Bird  
Greeneville, TN

Mr. & Mrs. Stephen D. Bird  
Greeneville, TN

Mr. Sammy L. Bird  
Greeneville, TN

Mr. & Mrs. Robert W. Bird  
Greeneville, TN

Mr. & Mrs. Robert W. Bird  
Chuckey, TN

Mrs. Carolyn Blake  
Greeneville, TN

Mr. Wayne Blake  
Afton, TN

Mr. & Mrs. Chassie L. Blankenship  
Greeneville, TN

Ms. Reva Blankenship  
Greeneville, TN

Mr. Ernest Bowser  
Greeneville, TN

Mr. & Mrs. Robert W. Brooks  
Greeneville, TN

Mr. & Mrs. Charles S. Brooks  
Greeneville, TN

Mr. & Mrs. Harold L. Brooks  
Greeneville, TN

Mr. & Mrs. John O. Brown  
Greeneville, TN

Mr. & Mrs. James F. Broyles  
Greeneville, TN

Mr. & Mrs. B. J. Broyles  
Afton, TN

Mr. & Mrs. Billy C. Broyles  
Afton, TN

Mr. Steven Broyles  
Chuckey, TN

Mr. Daniel E. Burgner  
Greeneville, TN

Mr. & Mrs. Carl T. Burns  
Greeneville, TN

Mr. Steve Burns  
Greeneville, TN

Mr. & Mrs. Jack Cain  
Fisher, IN

Mr. & Mrs. Jack Cain  
Greeneville, TN

Mr. William D. Campbell  
Limestone, TN

Mrs. Pat Carpenter  
Mohawk, TN

Ms. Lois A. Carrier  
Johnson City, TN

Mr. Johnnie T. Carroll  
Greeneville, TN

Ms. Vada M. Carroll  
Greeneville, TN

Mr. William Carroll  
Afton, TN

Ms. Joyce C. Carter  
Greenville, TN

Mr. & Mrs. Ronnie S. Carter  
Greeneville, TN

Ms. Nancy Carter  
Greeneville, TN

Mr. Jacob Chandler  
Knoxville, TN

Mr. & Mrs. Doyce Chandler  
Afton, TN

Ms. Emily D. Childress  
Kingsport, TN

Mr. Bruce Christopher  
Burnsville, TN

Mr. Jimmie Coffey  
Greeneville, TN

Mr. & Mrs. Clarence E. Cogdill  
Greeneville, TN

Mr. & Mrs. Carroll G. Collins  
Greeneville, TN

Mr. Johnny Collins  
Greeneville, TN

Mr. Delbert M. Conner  
Greeneville, TN

Mr. & Mrs. Dewey Cook  
Greeneville, TN

Mr. Marvin L. Cooter  
Greeneville, TN

Mr. & Mrs. Robert Cox  
Greeneville, TN

Mr. & Mrs. Kenneth Cox  
Greeneville, TN

Mr. & Mrs. James Cox  
Greeneville, TN

Mr. & Mrs. Robert Cox  
Greeneville, TN

Mr. Tom Cotten  
Greeneville, TN

Mr. & Mrs. Steven L. Crouch  
Greeneville, TN

Mr. & Mrs. Eugene Crum  
Greeneville, TN

Ms. Opie Crum  
Greeneville, TN

Ms. Karen J. Culbreth  
Greeneville, TN

Mr. & Mrs. Billy Cutshall  
Greeneville, TN

Mr. & Mrs. Bobby G. Cutshaw  
Greeneville, TN

Mr. & Mrs. Billy Cutshaw  
Greeneville, TN

Mr. Keith Cutshaw  
Afton, TN

Ms. Mabel C. Cyrus Greeneville, TN	Mr. & Mrs. Robert L. Duncan Greeneville, TN
Mr. & Mrs. Fred R. Daniels Greeneville, TN	Mr. & Mrs. Mark A. Duncan Afton, TN
Mr. & Mrs.. Tom Daniels Afton, TN	Mr. Ken Earl Greeneville, TN
Mr. Brian T. Daniels Afton, TN	Ms. Lucille Earley Greeneville, TN
Mr. & Mrs. James Davis Greeneville, TN	Mr. & Mrs. James Earley Greeneville, TN
Mr. & Mrs. Jim Davis Greeneville, TN	Mr. Larry Edmondson Nashville, TN
Mr. Steve Dearstone Greeneville, TN	Mr. George C. Elder Compton, CA
Mr. Douglas L. DeBusk Greeneville, TN	Mr. Ronald Elkins Knoxville, TN
Mr. Benjamin E. Denney Greeneville, TN	Mr. & Mrs. William W. Else Des Moines, IA
Mr. C. Jeff Dobson Greeneville, TN	Mr. & Mrs. Paul Emrich Greeneville, TN
Ms. Gail Dobson Greeneville, TN	Ms. Mary A. Ensminger Johnson City, TN
Mr. Gary W. Dobson Greeneville, TN	Mr. Charles E. Ervin Oneonta, AL
Mr. & Mrs. John Dolan Afton, TN	Mr. & Mrs. Charles G. Ervin Oneonta, AL
Mr. John Dority Greeneville, TN	Ms. Eugenia Estes Greeneville, TN
Ms. Danielle Droitsch Clinton, TN	Ms. Mary J. Everhart Greeneville, TN
Mr. & Mrs. Marion F. Dudley Greeneville, TN	Mr. Mark Fagg Morristown, TN
Mr. . Doug Duff Greeneville, TN	Mr. & Mrs. Robert Faulkner Greeneville, TN
Mr. Douglas L. Duff Greeneville, TN	Mr. Sammy D. Fellers Afton, TN
Ms. Linda A. Duggins Greeneville, TN	Ms. Kate M. Ferguson Charlotte, NC
Mr. John W. Duggins Greeneville, TN	Mr. Arvin Fillers Greeneville, TN

---

Mr. & Mrs. Wayne Fillers Greeneville, TN	Mr. & Mrs. Robert Gruener Greeneville, TN
Mr. & Mrs. Neal B. Fillers Greeneville, TN	Mr. Gerald Gulley, Jr. Knoxville, TN
Mr. Ellison Fillers Afton, TN	Ms. Kathy B. Gunter Greeneville, TN
Mr. & Mrs. Phillip O. Fletcher Greeneville, TN	Ms. Cathy Guthrie Greeneville, TN
Mr. & Mrs. Lloyd B. Ford Greeneville, TN	Mr. & Mrs. David W. Hagerman Fort Wayne, IN
Mr. Harry Fortner Greeneville, TN	Mr. Philip Hagedood Knoxville, TN
Mr. & Mrs. Jerry D. Fortner Greeneville, TN	Ms. Cynthia E. Hale Greeneville, TN
Mr. & Mrs. Harry S. Fortner Greeneville, TN	Mr. & Mrs. Bill J. Haney Greeneville, TN
Mr. & Mrs. John L. Garren Greeneville, TN	Mrs. Marie Harmon Greeneville, TN
Mr. W. K. Gaut Greeneville, TN	Mr. & Mrs. Michael Harrell Greeneville, TN
Mr. Conrad GeFellers Greeneville, TN	Mr. Jeff Harris Greeneville, TN
Mr. & Mrs. Joe D. Gentry Afton, TN	Mr. Greg A. Harrison Kingsport, TN
Ms. Ruth Gibbs Greeneville, TN	Ms. Brenda Hart Madison, TN
Mr. & Mrs. Darnell J. Gilland Chuckey, TN	Ms. Louise Hartley Greeneville, TN
Mr. Richard Gluck Greeneville, TN	Mr. & Mrs. Michael Hartsell Greeneville, TN
Ms. Kelly Golden Greeneville, TN	Mr. Glenn Harwell Knoxville, TN
Mr. & Mrs. Jeremy K. Green Greeneville, TN	Mr. Jim Hatchell Winston-Salem, NC
Mr. & Mrs. Carroll C. Greene Greeneville, TN	Mr. Toye Heape Nashville, TN
Mr. Johnny L. Gregg Afton, TN	Mr. Magdy Hefnawy Greeneville, TN
Mr. & Mrs. William F. Grigsby Greeneville, TN	Mr. Erwin C. Heining Greeneville, TN

Ms. Mary A. Hendry  
Greeneville, TN

Mr. & Mrs. Lark Hensley  
Greeneville, TN

Ms. Kristen Hesestreet  
Johnson City, TN

Mr. Estel Higgins  
Burnsville, NC

Ms. Donna S. Hill  
Greeneville, TN

Ms. Rae Hill  
Jefferson City, TN

Mr. & Mrs. John T. Hilton  
Greeneville, TN

Mr. & Mrs. Tony R. Holloman  
Greeneville, TN

Mr. Jordan Holtam  
Weaverville, NC

Mr. Johnny W. Hope  
Greeneville, TN

Mr. & Mrs. William D. Hope  
Afton, TN

Mr. Keith Hopson  
Greeneville, TN

Ms. Helen Horner  
Greeneville, TN

Mr. Gary W. House  
Greeneville, TN

Mr. & Mrs. Jay A. House  
Greeneville, TN

Mr. Darnell Howard  
Chuckey, TN

Mr. Homer W. Huff  
Greeneville, TN

Mr. & Mrs. Norman G. Hunley  
Afton, TN

Mr. & Mrs. Clyde Inscore  
Greeneville, TN

Mr. C. Jeffingram  
Greeneville, TN

Mr. & Mrs. Mode Jennings  
Afton, TN

Mr. Alex Johnson  
Greeneville, TN

Ms. Patricia Ann Johnson  
Greeneville, TN

Mr. Russell G. Johnson  
Greeneville, TN

Ms. Stella C. Johnson  
Greeneville, TN

Mr. Glenn Johnson  
Greeneville, TN

Mr. & Mrs. Russell T. Johnson  
Greeneville, TN

Mr. R. Allen Johnson  
Greeneville, TN

Mr. & Mrs. John Johnson  
Afton, TN

Mr. & Mrs. Robert Johnson  
Greeneville, TN

Mr. Greg Johnson  
Knoxville, TN

Mr. & Mrs. Estelle L. Jones  
Greeneville, TN

Mr. & Mrs. Alfred Jones  
Greeneville, TN

Ms. Carolyn Jones  
Afton, TN

Mr. Phil King  
Greeneville, TN

Mr. & Mrs. Timothy King  
Afton, TN

Mr. Richard Kirk  
Nashville, TN

Ms. Martha F. Kitzmiller  
Greeneville, TN

Mr. Steve Knight  
Mosheim, TN

Mr. Arden L. Kunkel  
Greeneville, TN

---

Mr. & Mrs. Henry Lam Greeneville, TN	Mr. & Mrs. Doyle G. Marchbanks Royal Palm Beach, FL
Ms. Maxine Laughlin Greeneville, TN	Ms. Marty Marina Nashville, TN
Mr. B. F. Laughter Greeneville, TN	Mr. Shawn Marshall Afton, TN
Mr. & Mrs. Ralph Lawing Greeneville, TN	Ms. June G. Mathis Greeneville, TN
Mr. & Mrs. Gene Lawrence Afton, TN	Mr. James McAfee Greeneville, TN
Mr. & Mrs. William E. Lawrence Afton, TN	Mr. & Mrs. A.J. McCamey Greeneville, TN
Ms. Katheryn Laws Greeneville, TN	Mr. Richard S. McGill Greeneville, TN
Mr. Danny W. Laws Greeneville, TN	Mr. Allan L. McKinney Johnson City, TN
Ms. Kathryn Laws Greeneville, TN	Mr. Clayton Meyer Afton, TN
Mr. Jeffrey Leake Greeneville, TN	Mr. & Mrs. Doyle Mitchell Afton, TN
Mr. & Mrs. Mike R. Leonard Greeneville, TN	Mr. & Mrs. Charles Montgomery Greeneville, TN
Ms. Dorothy Leonard Greeneville, TN	Mr. Robert Mooneyhan Charlotte, NC
Mr. & Mrs. Randall T. Lewis Afton, TN	Mr. Lewis Morelock Greeneville, TN
Mr. & Mrs. A. Keith Livingston Greeneville, TN	Mr. Robert L. Morris Greeneville, TN
Mr. Chris Livesay Greeneville, TN	Mr. & Mrs. Edwin F. Mounger Afton, TN
Mr. William H. Lloyd Greeneville, TN	Mr. & Mrs. William D. Muhlhahn Greeneville, TN
Ms. Frances Looney Greeneville, TN	Mr. Kent Myers Greeneville, TN
Ms. Kathy Lowery Greeneville, TN	Ms. Katherine Fox Myers Greeneville, TN
Ms. Helen W. Madron Hixson, TN	Mr. & Mrs. Dudley Myers Greeneville, TN
Mr. Anthony D. Maggio Greeneville, TN	Ms. Katherine F. Myers Greeneville, TN

Ms. Hertha Neas  
Greeneville, TN

Mr. Michael L. Noel  
Greeneville, TN

Mr. Richard A. Noel  
Greeneville, TN

Mr. & Mrs. Richard A. Noel  
Greeneville, TN

Mr. & Mrs. William S. Nunnally  
Greeneville, TN

Ms. Helen Ottinger  
Greeneville, TN

Ms. Park Overall  
Afton, TN

Mr. Wesley Pack  
Knoxville, TN

Ms. Jeanne R. Pamilla  
Greeneville, TN

Mr. Kenneth Parchinski  
Midway, TN

Mr. Kenneth Parchinski  
Newport, TN

Mr. Richard A. Parrish  
Charlottesville, VA

Mr. & Mrs. James L. Parton  
Greeneville, TN

Mr. & Mrs. David O. Patterson  
Greeneville, TN

Mr. & Mrs. Ron Payne  
Franklin, TN

Mr. & Mrs. Henry A. Penegar  
Greeneville, TN

Mr. & Mrs. Ray A. Peters  
Greeneville, TN

Mr. & Mrs. Travis Phillips  
Afton, TN

Mr. William L. Piper  
Nashville, TN

Ms. Patricia Posey  
Greeneville, TN

Mr. Bryan E. Presley  
Greeneville, TN

Mr. & Mrs. Larry Price  
Greeneville, TN

Mr. & Mrs. William H. Price  
Greeneville, TN

Mr. Jon Pursley  
Mosheim, TN

Ms. Jeannie E. Rademacher  
Greeneville, TN

Mr. Richard Raione  
Erwin, TN

Mr. & Mrs. Leonard J. Ramsey  
Greeneville, TN

Mr. & Mrs. J. D. Ramsey  
Greeneville, TN

Mr. Doug Ratledge  
Greeneville, TN

Mr. & Mrs. Ronnie J. Ray  
Erwin, TN

Ms. Margaret Ann Reaves  
Chuckey, TN

Mr. & Mrs. Tex Reaves  
Afton, TN

Mr. Jack Reed  
Afton, TN

Ms. Katherine M. Renfro  
Greeneville, TN

Mr. Glenn D. Renner  
Greeneville, TN

Mr. Paul Renner  
Greeneville, TN

Mr. Ross Renner  
Greeneville, TN

Mr. & Mrs. James A. Renner, Jr.  
Greeneville, TN

Mr. Blaine E. Rhea  
Greeneville, TN

Mr. & Mrs. Lamon Rice  
Afton, TN

---

Mr. Gary L. Ricker Greeneville, TN	Mr. & Mrs. Edward Schneider Greeneville, TN
Mr. & Mrs. Donnie Ricker Greeneville, TN	Mr. George E. Scott Greeneville, TN
Mr. & Mrs. James D. Ricker Greeneville, TN	Ms. Martha Scull Afton, TN
Ms. Helen Ricker Greeneville, TN	Mr. Andy Seals Greeneville, TN
Ms. Margaret Ricker Greeneville, TN	Mr. & Mrs. Hilton Seay Mosheim, TN
Mr. & Mrs. S. Arthur Ricker Greeneville, TN	Mr. Larry Self Mosheim, TN
Mr. & Mrs. Hubert W. Riddle Greeneville, TN	Mr. Anindya K. Sen Greeneville, TN
Mr. William Ridge Greeneville, TN	Mr. & Mrs. Vern Shaw Greeneville, TN
Ms. Betty Riedel Greeneville, TN	Mr. Kenneth Shaw Greeneville, TN
Mr. Dale Robbins Knoxville, TN	Mr. & Mrs. Ira G. Shaw Greeneville, TN
Ms. Marie E. Roberts Greeneville, TN	Mr. & Mrs. Joe E. Shaw Afton, TN
Mr. & Mrs. Danny D. Roberts Greeneville, TN	Mr. & Mrs. Ralph Shelton Greeneville, TN
Mr. Bill Robins Greeneville, TN	Mr. Jimmy L. Shelton Greeneville, TN
Mr. & Mrs. Albert Romanowski Greeneville, TN	Mr. & Mrs. Merrill O. Shelton Greeneville, TN
Mr. T. Brooke Sadler Greeneville, TN	Mr. & Mrs. Nate Shelton Greeneville, TN
Mr. & Mrs. Grant M. Sadler Greeneville, TN	Mr. Lewis S. Shelton Greeneville, TN
Mr. Gregg Sayler Greeneville, TN	Mr. & Mrs. Glen Shelton Greeneville, TN
Mr. Vincent Saylor Greeneville, TN	Mr. & Mrs. Dillard L. Shelton Greeneville, TN
Mr. Wayne H. Schacher Clinton, TN	Mr. David Shelton Afton, TN
Mr. & Mrs. Robert A. Schell Greeneville, TN	Mr. Melvin Shelton, Jr. Greeneville, TN

Mr. & Mrs. Freddie Shepherd  
Greeneville, TN

Mr. Freddie Shepherd  
Greeneville, TN

Mr. Kaylon Shepherd  
Greeneville, TN

Mr. & Mrs. Jack Shepherd  
Greeneville, TN

Mr. & Mrs. Freddie Shepherd  
Greeneville, TN

Ms. Linda Shiflet  
Greeneville, TN

Mr. & Mrs. Lewis A. Shipley  
Afton, TN

Ms. Karen D. Shivers  
Greeneville, TN

Mr. Dennis Shumate  
Greeneville, TN

Ms. Esther Sias  
Greeneville, TN

Mr. & Mrs. William Sias  
Greeneville, TN

Mr. & Mrs. Richard Simpson  
Afton, TN

Ms. Sandra M. Singleton  
Afton, TN

Mr. Leroy Sizemore  
Greeneville, TN

Mr. Spencer Smith  
Greeneville, TN

Mr. Charles S. Smith  
Greeneville, TN

Mr. Gary E. Smith  
Greeneville, TN

Mr. Marvin Neil Smith, Jr.  
Greeneville, TN

Mr. Elliott B. Smith, Jr.  
Greeneville, TN

Mr. E. B. Smith, MD  
Greeneville, TN

Mr. & Mrs. Timothy Smithson  
Greeneville, TN

Mr. Shane Snoderly  
Maryville, TN

Mr. & Mrs. Frank Spears  
Greeneville, TN

Mr. & Mrs. Dudley M. Spooner  
Greeneville, TN

Mr. Andy Spraberry  
Greeneville, TN

Mr. & Mrs. Jimmy L. Starnes  
Greeneville, TN

Mr. & Mrs. Jerome C. Stoneking  
Greeneville, TN

Mr. Joseph R. Susong  
Greeneville, TN

Mr. Rayburn Tankersley  
Greeneville, TN

Mr. Clark Taylor  
Greeneville, TN

Mr. Wayne Taylor  
Greeneville, TN

Ms. Susan K. Thomas  
Greeneville, TN

Mr. Jennings Thomley  
Greeneville, TN

Mr. & Mrs. Anthony W. Trent  
Greeneville, TN

Mrs. Willie Tucker  
Roanoke, TN

Ms. Bernice G. Tweed  
Greeneville, TN

Mr. & Mrs. Randy Tweed  
Greeneville, TN

Mr. Greg Upham  
Nashville, TN

Mr. R. D. Venerable  
Greeneville, TN

Ms. Stella Waddell  
Greeneville, TN

---

Mr. Darwyn Waddell Greeneville, TN	Ms. Rosalind B. Whittenburg Johnson City, TN
Mr. Roy F. Waddell Greeneville, TN	Mr. & Mrs. Aubrey W. Wilds Jonesboro, IN
Mr. & Mrs. James R. Waddell Afton, TN	Mrs. Wilhelmina Williams Chuckey, TN
Mr. H.K. Waddell Greeneville, TN	Mr. Jerry Wilhoit Greeneville, TN
Mr. Andrew Walker Nashville, TN	Mr. Jackie R. Wilhoit Greeneville, TN
Mr. & Mrs. Lloyd Wallace Greeneville, TN	Mr. Jim Wilhoit Greeneville, TN
Mrs. Jane Walters Greeneville, TN	Mr. Donnie L. Wilhoit Greeneville, TN
Mr. & Mrs. Robert Ward Greeneville, TN	Mr. Percy R. Wilhoit, Jr. Greeneville, TN
Mr. Richard Wardrep Newport, TN	Ms. Phyllis W. Williams Greeneville, TN
Mr. & Mrs. J. C. Watts Greeneville, TN	Mr. & Mrs. B. L. Williams Chuckey, TN
Mr. Edwart Y. Webb Greeneville, TN	Mr. Mike Wilson Greeneville, TN
Ms. Ella Webb Greeneville, TN	Mr. William C. Wilson Greeneville, TN
Mr. Lilliam R. Weckerly Greeneville, TN	Mr. & Mrs. William M. Wilson Greeneville, TN
Mr. Stanley Weems Greeneville, TN	Mr. Bob Windham Greeneville, TN
Mr. Rex Whaley Greeneville, TN	Mr. Hassel T. Wolfe Sevierville, TN
Mr. & Mrs. Bobby L. White Greeneville, TN	Mr. Bobby L. Wood Greeneville, TN
Mr. & Mrs. Don W. White Chuckey, TN	Mr. Bobby L. Wood Greeneville, TN
Mr. & Mrs. Lester L. White Afton, TN	Mr. Tom Yancey Greeneville, TN
Mr. Don White Chuckey, TN	Mr. Philip Young Knoxville, TN
Mr. David White Lookout Mountain, GA	

## 6.2 ACRONYMS, ABBREVIATIONS, SYMBOLS, AND GLOSSARY OF TERMS

< - less than.

> - greater than.

°F - degree Fahrenheit.

§§ - subsection.

**acre-foot** (plural: acre-feet) - a measure of volume used in land modification activities; the amount of material that would cover an acre (43,560 square feet) to a depth of 1 foot (43,560 cubic feet); equals 1,613.4 cubic yards.

**action alternative** - one of the alternatives being evaluated that would involve doing something to meet the purpose(s) of the project. Opposite: No Action Alternative.

**A.D.** - abbreviation for the Latin term *anno Domini*, meaning “in the year of our Lord.”

**aquatic** - typically found in water.

**B.C.** - before Christ.

**bed load** - larger particles in a stream that are rolled, tumbled, bounced, or slid along the bottom by the force of the water. Sand, cobbles, and boulders are typical bed load particles.

**best management practices** - construction or maintenance practices that have been shown to be the most effective and practical ways of preventing impacts to environmental resources.

**ca.** (circa) - approximate date.

**cm/s** - centimeters per second.

**CFR** – Code of Federal Regulations.

**cubic yard** - a measure of volume used in many construction activities; the amount of material that would fill a space 1 yard (3 feet) on each side (27 cubic feet); equals 0.00062 acre-feet.

**EA** - Environmental Assessment. This is a concise public document identified in the National Environmental Policy Act (NEPA) for which a federal agency is responsible that serves to provide sufficient evidence and analysis for

determining whether to prepare an Environmental Impact Statement or a Finding of No Significant Impact.

**easement** - an interest in land owned by one party that allows another party to have specific, limited use of the land.

**e.g.** - abbreviation for the Latin term *exempli gratia*, meaning “for example.”

**EIS** - Environmental Impact Statement. This is the most detailed type of environmental review identified in the National Environmental Policy Act (NEPA).

**endangered species** - an animal or plant that is in danger of extinction throughout all or a significant part of its range.

**Endangered Species Act** - a federal law, first passed in 1973, establishing federal lists of endangered and threatened wildlife and plants, which requires federal agencies to ensure that any action they authorize, fund, or carry out is not likely to jeopardize the continued existence of listed species.

**environment** - in a natural context, all of the living and nonliving things in the area where an individual or a species occurs.

**et al.** - abbreviation for the Latin term *et alia*, meaning “and others.” .

**etc.** - abbreviation for the Latin term *et cetera*, meaning “and other things” or “so forth.”

**et seq.** - abbreviation for the Latin term *et sequential*, meaning “and the following one.”

**et ux.** – abbreviation for the Latin term *et uxor*, meaning “and wife.”

**Executive Order 11988** - an order to federal agencies signed by the President of the United States requiring them to avoid or mitigate any actions that could result in impacts to the floodplains of streams.

**Executive Order 11990** - an order to federal agencies signed by the President of the United States requiring them to avoid or mitigate any actions that could harm wetlands.

**Executive Order 12898** - an order to federal agencies signed by the President of the United States that requires federal actions to address environmental justice in minority populations and low-income populations, signed by President Clinton on February 11, 1994.

**fee title** - owning all rights to a parcel of land.

**FEMA** - Federal Emergency Management Agency.

**floodplain** - the part of a stream valley that is covered with water during a flood event. Typically associated with a flood that could occur at a given frequency (for example, the edges of a 100-year floodplain would be covered with water only during floods expected to occur, on average, less frequently than once in any 100 years).

**floodway** - the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that a specific recurrence interval flood (typically a 100-year flood) can be passed without substantial increases in flood heights. Minimum federal standards limit increases to 1.0 foot, provided that hazardous water velocities are not produced.

**flowage easement land** - privately owned land over which TVA has acquired the right to flood the land with water, typically up to a specific elevation.

**Geographic Information System (GIS)** - a computer analysis program that can display and evaluate almost any information that can be associated with specific places on the earth.

**groundwater** - water that is located under the surface of the earth. Opposite: "surface water."

**USACE HEC-RAS** - Hydrologic Engineering Center, River Analysis System

**IBI** - Index of Biotic Integrity

**ibid** - Abbreviation for the Latin term, *ibidem*, meaning "in the same place;" refers to the immediately preceding author or work cited.

**invertebrates** - animals that do not have backbones. Used to refer to all animals except fish, amphibians, reptiles, birds, and mammals (the vertebrates).

**karst** - a region in which the bedrock contains sinks, underground streams, and caverns.

**managed area** - specific, defined land in public, institutional, or private ownership that has been established and is operated to protect significant features or resources.

**mg/kg** - milligrams per kilogram.

**mg/L** - milligrams per liter

**NEPA** (National Environmental Policy Act) - a 1970 federal law that requires agencies to determine the environmental impacts of proposed actions, to consider alternatives to those actions, and to include a consideration of the environmental impacts when deciding which actions to conduct.

**NHPA** (National Historic Preservation Act) - a federal law that requires agencies to avoid or mitigate impacts to significant archaeological or historic resources.

**No.(s)** - number(s)

**NPDES** - National Pollutant Discharge Elimination System.

**NRHP** (National Register of Historic Places) - Buildings/properties/sites listed on the NRHP have been evaluated by the following criteria: their significance in American history, architecture, archaeology and culture, integrity of location, design, setting, materials, workmanship, and association. This list of distinction identifies properties worthy of preservation for their historic value.

**PEC** - probable effect concentrations

**PCBs** - polychlorinated biphenyls.

**prime farmland soils** - types of soils that have physical and chemical properties that economically can sustain high crop yields.

**scoping** - an early part of the NEPA process when agencies and members of the public are encouraged to help focus the planned evaluation on important subject areas.

**SCUBA** – self-contained underwater breathing apparatus

**sediment** - material that is moved and deposited by wind and/or water.

**SHPO** - State Historic Preservation Officer.

**sp.** - abbreviation for species.

**surface water** - water visible on the surface of the ground or in a stream. Opposite: groundwater.

**taxon** (plural: taxa) - a general term used to refer to an unknown or unspecified level of animal or plant classification. Typically used as a plural when a total includes a mixture of species, genera, and higher taxonomic categories (“28 insect taxa were found”).

**TCA** (Tennessee Code Annotated) - Tennessee statutory law.

**TDEC** - the Tennessee Department of Environment and Conservation.

**TEC** – threshold effect concentrations

**terrestrial** - typically found on land.

**threatened species** - an animal or plant that is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range.

**tract** - a separate, identified parcel of land, usually with some sort of assigned identification number.

**turbid** - clouded because of the fine sediment it contains.

**turbidity** - the fine sediment suspended in a volume of water.

**TVA** - the Tennessee Valley Authority.

**TWRA** - the Tennessee Wildlife Resources Agency.

**U.S.** - United States.

**USACE** - the U.S. Army Corps of Engineers.

**USC** (United States Code) - a consolidation and codification by subject matter of the general and permanent laws of the United States prepared and published by a unit of the U.S. House of Representatives.

**USEPA** - the U.S. Environmental Protection Agency.

**USFWS** - the U.S. Fish and Wildlife Service.

**USGS** - the U.S. Geological Survey.

**water quality** - the physical, chemical, and biological characteristics of water compared to recognized standards of quality necessary to maintain certain uses.

**wetlands** - land areas adjacent to, or away from, flowing streams that support plants and animals with high water requirements.

---

### 6.3 REFERENCES

- Ahlstedt, S. A. 1984a. *Recovery Plan for the Green-Blossom Pearly Mussel Epioblasma (=Dysnomia) Torulosa Gubernaculum* (Reeve, 1865). Atlanta: U.S. Fish and Wildlife Service.
- Ahlstedt, S. A. 1984b. *Recovery Plan for the Cumberland Bean Pearly Mussel Villosa Trabalis* (Conrad, 1834). Atlanta: U.S. Fish and Wildlife Service.
- Ahlstedt, S. A. 1984c. *Recovery Plan for the Birdwing Pearly Mussel, Conradilla Caelata* (Conrad, 1834). Atlanta: U.S. Fish and Wildlife Service.
- Ahlstedt, S. A. 1985. *Recovery Plan for the Pink Mucket Pearly Mussel, Lamprolaima Orbiculata* (Hildreth, 1828). Atlanta: U.S. Fish and Wildlife Service.
- Ahlstedt, S. A. 1986. *Cumberlandian Mollusk Conservation Program Activity 1: Mussel Distribution Surveys*. Norris: Tennessee Valley Authority, Office of Natural Resources and Economic Development.
- American Society for Testing and Materials (ASTM). 1993. "D 2488-93, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)," *Annual Book of ASTM Standards*, Vol. 04.08.
- Angle, C.R., M.S. McIntire, and A. V. Colucci. 1974. "Lead in the Air, Dustfall, Soil, Housedust, Milk, and Water: Correlation of Blood Lead in Urban and Suburban School Children," *Trace Substan. Environ. Health*, 8:23-29.
- Aquatic Resources Center. 1996. *Lemiox Rimosus Transplant Site Surveys, 1996*. Franklin: Aquatic Resources Center.
- Baldwin, W. H. 1914. *Map of Flowage Lands for 70 Ft. Dam. Tenn. Eastern Elec. Co. Nolichucky River. Greene Co. Tenn.* in B. Carroll Reese Library, East Tennessee State University, Johnson City.
- Barr, W. C., S. A. Ahlstedt, G. D. Hickman, and D. M. Hill. 1986. *Cumberlandian Mollusk Conservation Program Activity 8: Analysis of Macrofauna Factors*. Knoxville: Tennessee Valley Authority, Office of Natural Resources and Economic Development.
- Biggins, R. B., and R. B. Eager. 1983. *Snail Darter Recovery Plan*. Atlanta: U.S. Fish and Wildlife Service.
- Bornschein, R. 1986. "Lead in Soil in Relation to Blood Levels in Children." *Trace Substan. Environ. Health*, 20:322-332.

Boschung, H. T., and R. L. Mayden. 2003. *Freshwater Fishes of Alabama*. Tuscaloosa: University of Alabama Press.

Brahana, J. V., D. Mulderink, J. A. Macy, and M. W. Bradley. 1986. *Preliminary Delineation and Description of the Regional Aquifers of Tennessee—The East Tennessee Aquifer System*. U. S. Geological Survey, Water-Resources Investigations Report 82-4091.

Brady, J., T., Kunz, M. D. Tuttle, and D. Wilson. 1982. *The Gray Bat Recovery Plan*. Denver: United States Fish and Wildlife Service.

Bureau of Economic Analysis. 1997. "Bear Facts for 1987-1997; Greene County, Tennessee." <<http://www.bea.gov/bea/regional/bearfacts>> (date of access undetermined).

Braun, E. L. 1950. *Deciduous Forests of Eastern North America*. Philadelphia: The Blakiston Company.

Buffington, J. M., and D. R. Montgomery. 1999. "Effects of Sediment Supply on Surface Textures of Gravel-Bed Rivers." *Water Resources Research*. 35(11): 3523-3530.

Burr, B. M., and D. J. Eisenhour. 1994. *Status Survey of the Chucky Madtom (Ictaluridae: Noturus sp.) in East Tennessee*. Unpublished Final Report to Tennessee Wildlife Resources Agency, Nongame and Endangered Species, Ellington Agricultural Center, Nashville, Tennessee.

Butler, R. S., and R. G. Biggins. 1998. *Technical Draft Recovery Plan for Cumberland Elktoe (Alasmidonta atropurpurea), Oyster Mussel (Epioblasma capsaeformis), Cumberlandian Combshell (Epioblasma brevidens), Purple Bean (Villosa perpurpurea), and Rough Rabbitsfoot (Quadrula cylindrica strigillata)*. Asheville: U.S. Fish and Wildlife Service.

Carter, B. D., C. E. Williams, and R. D. Bivens. 1999. *Warm Water Stream Fisheries Report, Region IV, 1998*. Tennessee Wildlife Resources Agency Fisheries Report 99-5.

Choate, J. R., J. K. Jones, Jr., and C. Jones. 1994. *Handbook of Mammals of the South-Central States*. Baton Rouge: Louisiana State University Press.

Cowardin, L. M., V. Carter, F. C. Golet, and E. T. LaRoe. 1979. *Classification of Wetland and Deepwater Habitats of the United States*. Washington: U.S. Fish and Wildlife Service, FWS/OBS-79/31.

- 
- DeBuchananne, G. D., and R. M. Richardson. 1956. *Ground-Water Resources of East Tennessee*. Nashville: State of Tennessee, Department of Conservation, Division of Geology, Bulletin 58 Part 1.
- DeSelm, H.R. 1984. *Potential National Natural Landmarks of the Appalachian Ranges Natural Region Ecological Report*. U.S. Department of the Interior National Park Service, 277-279.
- Duda, A. M., and D. L. Penrose. 1980. *Impact of Mining Activities on Water Quality in Western North Carolina*. Water Resources Bulletin 16(6):1034-1040.
- Etnier, D. A., and W. C. Starnes. 1993. *The Fishes of Tennessee*. Knoxville: University of Tennessee Press.
- Federal Emergency Management Agency. 1979. *Federal Guidelines for Dam Safety*, FEMA 93, June.
- . 1991a. *Flood Insurance Study (FIS), Hamblen County, Unincorporated Areas, Tennessee*.
- . 1991b. *Flood Insurance Study (FIS), Greene County, Unincorporated Areas, Tennessee*.
- . 1998. *Flood Insurance Study (FIS), Cocke County, Unincorporated Areas, Tennessee*.
- Federal Farmland Protection Policy Act. 1981. U.S. Code of Federal Regulations Title 7, Part 567. Amended in 1984 and 1994 (7 CFR Part 658).
- Fenneman, N. E. 1938. *Physiography of Eastern United States*. New York: McGraw-Hill Book Company Inc.
- Greenwalt, L. A. 1976. "Gray Bat, Mexican Wolf, and Two Butterfly Species Added to the List of Endangered and Threatened Species by the U.S. Fish and Wildlife Service." *Federal Register*, 41:17736-17740.
- Hamel, P. 1993. *Tennessee Wildlife Viewing Guide*. Helena and Billings: Falcon Press Publishing Co. Inc.
- Hardeman, W. D. 1966. *Geologic Map of Tennessee*. State of Tennessee, Department of Conservation, Division of Geology, in Cooperation With The United States Geological Survey, the Geology Department of The University of Tennessee, and the Geology Department of Vanderbilt University.

- Holmgren, G. G., S., M W. Meyer, R. L. Chaney, and R. B. Daniels. 1993. "Cadmium, Lead, Zinc, Copper, and Nickel in Agricultural Soils of the United States of America," *Jour. Environ. Quality*, 22:335-348.
- Jenkinson, J. J. 1983. "Status Report on the Tennessee Valley Authority Cumberlandian Mollusk Conservation Program." Report of Freshwater Mussels Workshop, October 26-27, 1982, 79-83, Compiled by A. C. Miller. Vicksburg: U.S. Army Engineer Waterways Experiment Station.
- Karr, J. R. 1981. "Assessment of Biotic Integrity Using Fish Communities." *Fisheries* 6(6):21-27.
- Kerans, B. L., and J. R. Karr. 1994. "A Benthic Index of Biotic Integrity (B-IBI) for Rivers of the Tennessee Valley." *Ecological Applications*, 4(4):768-785.
- Kennedy, M. L., and M. J. Harvey. 1979. *Tennessee Mammals: Capsule Descriptions of Twenty-Four Selected Species*. Ecological Research Center, Memphis State University.
- La Val, R. K., R. L. Clawson, M. L. La Val, and W. Caire. 1977. "Foraging Behavior and Nocturnal Activity Patterns of Missouri Bats, With Emphasis on the Endangered Species *Myotis grisescens* and *Myotis sodalis*." *Journal of Mammalogy*, 58:592-599.
- Leopold, L. B. 1994. *A View of the River*. Cambridge: Harvard University Press.
- Lewis, T. M. N., and M. Kneberg. 1957. "The Camp Creek Site." *Tennessee Archaeologist*, 13 (1):1-48.
- Lindsay, W. L. 1979. *Chemical Equilibria in Soils*. New York: John Wiley and Sons.
- Luther, E. T. 1977. *Our Restless Earth, The Geologic Regions of Tennessee*. Knoxville: The University of Tennessee Press.
- Maclay, R. W. 1962. *Geology and Ground-Water Resources of the Elizabethton-Johnson City Area Tennessee*. Washington: U.S. Geological Survey, Geological Survey Water-Supply Paper 1460-J.
- Madhaven, S., K. Rosename, and T. Shehata. 1989. "Lead in Soil: Recommended Maximum Permissible Levels." *Environ. Research*, 49:136-142.
- Mayden, R. L., and B. R. Kuhajda. 2000. *Status and distribution of the chunky madtom, *Noturus sp. cf. N. elegans* (Ictaluridae) in Alabama and Tennessee*. Unpublished proposal for research, submitted to the U.S. Fish & Wildlife Service March 22, 2000.

- 
- Mielke, H. W., J. L. Adams, P. L. Reagan, and P. W. Mielke. 1989. "Soil-Dust Lead and Childhood Exposure as a Function of City Size and Community Traffic Flow: the Case for Lead Abatement in Minnesota." *Environ. Geochem. Health*.
- Mullican, H. N., R. M. Sinclair, and B. G. Isom. 1960. *Part I: Survey of the Aquatic Biota of the Nolichucky River in the State of Tennessee*. Reprinted 1973. Nashville: Tennessee Stream Pollution Control Board, Tennessee Department of Public Health.
- Muncy, J. A. 1985. *Reclamation of Abandoned Mica, Feldspar and Kaolin Surface Mines and Associated Tailings Disposal Sites in Western North Carolina*. Presented to the American Society for Surface Mining and Reclamation, Denver, Colorado.
- National Science Foundation. 1977. *Lead in the Environment*. Washington: National Science Foundation, NSF/RA-770214.
- Neves, R. J. 1984. *Recovery Plan, Fine-Rayed Pigtoe Pearly Mussel, Fusconaia Cuneolus*. Atlanta: U.S. Fish and Wildlife Service.
- Neves, R. J., A. E. Bogan, J. D. Williams, S. A. Ahlstedt, and P. W. Hartfield. 1997. "Status of Aquatic Mollusks in the Southeastern United States: a Downward Spiral of Diversity." Chapter 3 in *Aquatic Fauna in Peril: the Southeastern Perspective* (Special Publication 1), edited by G. W. Benz and D. E. Collins, 43-85. Decatur: Southeast Aquatic Research Institute, Lenz Design & Communications.
- North Carolina Department of Environment and Natural Resources. 2006. Division of Water Quality, Surface Water Classifications. <http://h2o.enr.state.nc.us/bims/reports/basinsandwaterbodies/hydroFrenchBroad.pdf>, August 29, 2006.
- . 2006a. Division of Water Quality, Draft 2006 303(d) List. <http://h2o.enr.state.nc.us/tmdl/documents/2006303dListPublicReviewDraft.pdf>, August 29, 2006.
- Oregon State University Information Services, Government Information Sharing Project. 1998. "1997 Census of Greene County, Tennessee". <<http://govinfo.library.orst.edu/>>
- . 1999. "1997 Census of Agriculture, Greene County, Tennessee". <<http://govinfo.library.orst.edu/>>.
- Ortmann, A. E. 1918. *The Nayades (Freshwater Mussels) of the Upper Tennessee Drainage; With Notes on Synonymy and Distribution*. Proceedings of the American Philosophical Society, 57:521-626.
-

Parmalee, P.W., and A.E. Bogan. 1998. *The Freshwater mussels of Tennessee*. The University of Tennessee Press, Knoxville, Tennessee. 328 pp.

Redmond, W. H., and A. F. Scott. 1996. *Atlas of Amphibians in Tennessee. Miscellaneous Publication Number 12*. Clarksville: The Center for Field Biology, Austin Peay State University.

Ricketts, T. H., E. Dinerstein, D. M. Olson, C. J. Loucks, W. Eichmaum, D. DellaSala, K. Kavanaugh, P. Hedao, P. T. Hurley, K. M. Carney, R. Abel, and S. Walters. 1999. *Terrestrial Ecoregions of North America: A Conservation Assessment*. Washington: Island Press.

Scott, G. R., and S. L. Jones. 1945. *Studies of the Pollution of the Tennessee River System. II Detailed Discussion of Types and Sources of Pollution and Their Effects on the River System With Results of Studies of the Major Tributaries 1937-1939*. Knoxville: Tennessee Valley Authority.

Semmer, B. 1998. "Greene County." In *The Tennessee Encyclopedia of History and Culture*, edited by Carroll Van West. Nashville: The Tennessee Historical Society, Rutledge Hill Press.

Shacklette, H. T., and J. G. Boerngen. 1984. *Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States*. U.S. Geological Survey Professional Paper 1270.

Tennessee Department of Conservation. 1973. *Analyses of Geologic Materials, Boone Lake Area, Tennessee*. Report of Investigations #35. Nashville: Department of Conservation, Division of Geology.

Tennessee Department of Environment and Conservation. 2006. Division of Water Pollution Control, Use Classifications for Surface Waters, <http://www.state.tn.us/sos/rules/1200/1200-04/1200-04-04.pdf>, August 29, 2006.

———. 2006a. Division of Water Pollution Control, Draft Year 2006 303(d) List, [http://www.state.tn.us/environment/wpc/publications/2006\\_303d.pdf](http://www.state.tn.us/environment/wpc/publications/2006_303d.pdf), August 29, 2006.

Tennessee Parks and Greenways Foundation. 1999a. *Board Resolution to Accept Conservation Easement, Joe Neill Easement, Nolichucky River Conservation Area*. Resolution No. 4-99.

———. 1999b. *Deed of Conservation Easement*.

Tennessee Valley Authority. Undated. *Summary Report: Suspended Sediment Investigation: 1935-37 and 1963-65*. TVA Division of Water Control Planning, Hydraulic Data Branch.

- 
- . 1938. *Report on Silting of Lake Davy Crockett on Nolichucky River*.
- . 1968. *Sedimentation in TVA Reservoirs*. Report No. 0-6693. TVA Division of Water Control Planning.
- . 1970. *Drainage Areas for Streams in Tennessee River Basin*, Report No. 0-5829-R-2. Knoxville: Hydraulic Data Branch, Division of Water Control Planning.
- . 1971. "Water Quality Management Plan: French Broad River Watershed – Nolichucky Subbasin – First Draft." *State of Tennessee Unified Watershed Assessment and Restoration Plan*. <<http://www.epa.gov/owow/uwa/tn.pdf>> (date of access undetermined).
- . 1972. *Rehabilitation of the Nolichucky Project Environmental Statement*. TVA-OHES-EIS-72-2.
- . 1980. *TVA Water Control Projects and Other Major Hydro Developments in the Tennessee and Cumberland Valleys*, Engineering Data, Technical Monograph No. 55, Volume 2. Knoxville: Tennessee Valley Authority.
- . 1993. *Tennessee Valley Reservoir and Stream Quality - 1993 Summary of Vital Signs and Use Suitability Monitoring Volume 1*. Chattanooga: TVA, Water Management, Clean Water Initiative.
- . 2000a. *Scoping Document: Nolichucky Reservoir Flood Remediation Environmental Impact Statement*. Knoxville: Tennessee Valley Authority
- . 2000b. *Management Report on Columbia Project Historic Properties Transfer*. Norris: Tennessee Valley Authority.
- Tennessee Valley Authority and U.S. Army Corps of Engineers. 1999. Environmental Assessment, *Nolichucky Sand Company Inc. Request for Tennessee Valley Authority Land Use and Section 26a Approval and Department of the Army Permit Approval Under Section 10 of the Rivers and Harbors Act of 1899, for Lake Access and Sand Mining, TVA Tract Nos. NOR-14A, -14, -15, and -12B, Davy Crockett Reservoir, Nolichucky River Mile 49.0 to 50.1L, at Bird Bridge, Greene County, Tennessee*. Morristown: Tennessee Valley Authority.
-

———. 2004. *Supplemental Environmental Assessment, Request for Tennessee Valley Authority Land Use and Section 26a Approval and Department of the Army Permit Approval Under Section 10 of the Rivers and Harbors Act of 1899, for Expansion of its Existing Reservoir Sand Mining Operations - Tract Nos. NOR-14A, -14, -15, -16, 21B, -41, -42, and -43 - Nolichucky Sand Company Inc.'s Bird Bridge Dredge Nolichucky (Davy Crockett Lake) Reservoir, Nolichucky River Mile 49.0 to 51.0L, Greene County, Tennessee*. Morristown: Tennessee Valley Authority.

Tennessee Wildlife Resources Agency. 2000. "Wildlife Management Area Hunting Seasons 2000-01." <<http://www.state.tn.us/twra/wmatext.pdf>> (date of access undetermined).

Thomas, D. P., and T. L. Best. 2000. *Radiotelemetric Assessment of Movement PATterns of the Gray Bat (Myotis Grisescens) at Guntersville Reservoir, Alabama*. Occasional Papers of the North Carolina Museum of Natural Sciences and the North Carolina Biological Survey, 12:57-66.

Trapp, H., Jr., and M. A. Horn. 1997. *Groundwater Atlas of the United States, Delaware, Maryland, New Jersey, North Carolina, Pennsylvania, Virginia, West Virginia*. U.S Geological Survey, HA 730-L.

Tuttle, M. D. 1976. "Population Ecology of the Gray Bat (*Myotis grisescens*): Factors Influencing Growth and Survival of Newly Volent Young." *Ecology*, 57:587-595.

U.S. Army Corps of Engineers. 2006. *How to Use the Hydrologic Engineer Center River Analysis System Program (HEC-RAS) – A Hands-on Computer Workshop*. [http://www.hec.usace.army.mil/training/course\\_list.html](http://www.hec.usace.army.mil/training/course_list.html) (access August 2006).

U.S. Department of Agriculture. 1944. *Soil Survey for Cocke County, Tennessee*. Soil Conservation Service; Tennessee Agricultural Experiment Station; and Tennessee Valley Authority.

———. 1946. *Soil Survey for Hamblen County, Tennessee*. Agricultural Research Administration and Bureau of Plant Industry, Soils, and Agricultural Engineering; Tennessee Agricultural Experiment Station; and Tennessee Valley Authority.

———. 1958. *Soil Survey for Greene County, Tennessee*. Soil Conservation Service; Tennessee Agricultural Experiment Station; and Tennessee Valley Authority.

- 
- . 1999. *National STATSGO Database*. Natural Resource Conservation Service. <<http://www.ftw.nrcs.usda.gov/stat2.html>> (date of access undetermined).
- United States Environmental Protection Agency. 1986. *Air Quality Criteria for Lead*. Research Triangle Park: U.S. Environmental Protection Agency, EPA 600/8-83-018F.
- . 1989. Chapter 8 in Document #530/SW-89-031, published in May 1989.
- . 1994. "Nolichucky, BASINS Core Data." <<http://www.epa.gov/OST/BASINS/HUCS/06010108/>> (date of access undetermined).
- . 2000. <<http://oaspub.epa.gov/surf/surface>>
- . 2002. *Guidelines Establishing Test Procedures for the Analysis of Pollutants; Whole Effluent Toxicity Test Methods; Final Rule*. 40 CFR Part 136, [FRL-7408-6], RIN 2040-AD73, [Federal Register: November 19, 2002 (Volume 67, Number 223)], [Rules and Regulations], [Page 69951-69972], From the Federal Register Online via GPO Access [[wais.access.gpo.gov](http://wais.access.gpo.gov)] [DOCID:fr19no02-13].
- U.S. Forest Service. 1994. *Wild and Scenic River Study Report and Final Environmental Impact Statement on the Nolichucky River*. Asheville: U.S. Department of Agriculture, Forest Service, Pisgah National Forest and Cherokee National Forest.
- U.S. Fish and Wildlife Service. 1982. *Gray Bat (Myotis Grisescens) Recovery Plan*. Denver, U.S. Fish and Wildlife Service.
- . 2004. "Endangered and Threatened Wildlife and Plants; Designation of Critical Habitat for Five Endangered Mussels in the Tennessee and Cumberland River Basins." *Federal Register*, 69 (168):53136-53180.
- Waters, T. F. 1995. *Sediment in Streams: Sources, Biological Effects, and Control*. American Fisheries Society Monograph 7.
- Xintaras, Charles. 1992. *Analysis Paper: Impact of Lead-Contaminated Soil on Public Health*. U.S. Department of Health and Human Services, Agency for Toxic Substances and Disease Registry, <<http://atsdr1.atsdr.cdc.gov:8080/cxlead.html>, May 1992> (date of access undetermined).
-

## **6.4 INDEX (Also see index of commenters on page F6 in Appendix F.)**

**100-year floodplain** • i, ii, xii, xv, 7, 20, 21, 22, 23, 26, 32, 40, 53, 54, 91, 92, 99, 100, 117, 118, 119, 120, 129, 154, 158, 165, 168, 169, 170, 180, 182, 183, 184, 185, 192, 193, 196, 214

**500-year floodplain** • i, ii, iii, iv, v, vi, vii, xii, xv, 12, 20, 21, 22, 23, 24, 25, 28, 31, 35, 36, 37, 38, 40, 41, 42, 43, 52, 53, 54, 91, 92, 99, 100, 102, 103, 104, 106, 117, 118, 119, 120, 128, 129, 138, 141, 164, 166, 168, 169, 170, 175, 182, 183, 184, 185, 186, 191, 192, 193, 195, 196, 197, 198, 199, 201, 202

**Alternative A (No Action)** • ii, iii, vi, vii, viii, ix, 17, 19, 23, 35, 40, 43, 44, 45, 46, 137, 138, 140, 142, 144, 146, 149, 150, 152, 154, 157, 158, 161, 162, 163, 164, 167, 168, 171, 172, 174, 175, 178, 179, 180, 181, 182, 183, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 199, 201, 202, 212

**Alternative B** • ii, iii, vi, viii, ix, 19, 24, 35, 40, 43, 44, 45, 140, 141, 142, 146, 149, 150, 152, 154, 157, 158, 161, 162, 164, 167, 168, 171, 172, 174, 175, 178, 179, 180, 181, 182, 183, 185, 189, 190, 191, 192, 194, 195, 196, 199, 201, 202

**Alternative C** • ii, iv, v, vii, viii, ix, 13, 19, 25, 31, 32, 33, 41, 43, 44, 45, 138, 139, 140, 141, 142, 146, 150, 151, 153, 155, 157, 158, 159, 160, 161, 162, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 176, 178, 180, 181, 182, 184, 185, 186, 189, 191, 193, 194, 195, 197, 198, 199, 201, 202

**Alternative D** • ii, v, vi, vii, viii, ix, 13, 19, 31, 34, 42, 43, 44, 45, 139, 140, 142, 150, 153, 158, 159, 161, 162, 166, 167, 168, 170, 171, 173, 174, 178, 181, 182, 185, 186, 189, 190, 191, 194, 195, 198, 199, 201, 202

**Archaeological** • iv, vi, vii, 14, 41, 42, 43, 126, 127, 128, 191, 192, 193, 194, 195, 206, 223

**Avery County, North Carolina** • i, 1, 4, 58, 60

**Bed load** • 65, 66, 70, 71, 72, 143, 144, 145, 147, 148, 149, 151, 152, 153, 155, 156, 157, 159, 162, 173, 176, 177, 178, 179, 181, 185, 220

**Best management practices** • 28, 33, 146, 153, 157, 220

**Blue Ridge Physiographic Province** • 55, 58, 60, 101

**Cedar Creek Learning Center** • 6, 122, 186, 187, 189, 190

**Clean Water Act** • 14, 90, 166

**Cocke County, Tennessee** • i, 1, 47, 53, 58, 60, 100, 105, 106, 111, 130, 131, 132, 133, 134, 227, 232

---

**Cost** • iii, vii, viii, 6, 25, 31, 33, 37, 45, 46, 141, 197, 198

**Dam safety** • ii, iii, 23, 24, 28, 31, 46, 101, 168

**Davy Crockett Lake** • i, 1, 4, 64, 224

**Disposal** • 26, 28, 33, 138, 139, 141, 146, 150, 173, 193, 194, 195, 198, 199, 229

**Dredging** • 7, 12, 17, 18, 24, 25, 26, 27, 28, 31, 33, 34, 35, 71, 125, 141, 145, 146, 147, 148, 149, 150, 157, 159, 167, 181, 189, 194, 196, 197, 198, 199

**Easements** • i, iii, iv, 4, 6, 8, 10, 18, 21, 22, 24, 25, 28, 33, 35, 37, 40, 119, 164, 167, 168, 171, 184, 192, 197, 201

**Economy** • v, vi, 34, 39, 42, 43, 197, 198, 199

**Employment** • vi, xiv, 43, 131, 132, 197, 198, 199

**Endangered species** • vi, 11, 15, 109, 113, 114, 174, 203, 204, 205, 213, 216, 218, 220

**Environmental education** • i, iii, iv, vi, viii, 6, 21, 24, 25, 28, 33, 35, 41, 42, 46, 95, 122, 184, 185, 186, 187, 202, 204, 205, 206

**Erosion** • 5, 28, 33, 90, 125, 138, 139, 140, 146, 147, 148, 150, 151, 154, 155, 158, 163, 177, 179, 181, 185

**Executive Order 11988 (Floodplains Protection)** • 14, 167, 168, 169, 170, 221

**Executive Order 11990 (Wetlands Protection)** • 14, 90, 166, 221

**Executive Order 12898 (Environmental Justice)** • 15, 133, 221

**Generator** • i, 1, 6

**Greene County, Tennessee** • i, ii, xiv, 1, 12, 14, 20, 21, 23, 28, 33, 40, 47, 52, 53, 58, 60, 105, 106, 115, 126, 127, 130, 131, 132, 133, 134, 168, 183, 186, 196, 197, 198, 199, 225, 226, 227, 229, 230, 231, 232

**Greeneville, Tennessee** • i, ii, 1, 14, 20, 28, 33, 47, 48, 49, 60, 62, 71, 117, 120, 130, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219

**Groundwater** • v, vi, vii, xii, ix, x, xii, 11, 38, 41, 42, 43, 54, 55, 56, 57, 90, 91, 95, 96, 97, 140, 141, 142, 164, 165, 166, 205, 222, 223

**Hamblen County, Tennessee** • i, 1, 58, 60, 100, 130, 131, 132, 133, 134, 227, 232

**Historic** • i, ii, iii, iv, vi, vii, 14, 23, 24, 31, 40, 41, 42, 43, 46, 70, 72, 111, 126, 127, 128, 129, 191, 192, 193, 194, 195, 208, 209, 223, 231

**Jefferson County, Tennessee** • i, 1, 58, 60

**Jurisdictional wetlands** • 90, 91, 92

**Kinser Park** • 122, 186, 187, 189, 190, 197, 211

**Labor market area** • xiv, 130, 131, 132, 133, 134, 196, 199

**Land use** • xv, 72, 91, 115, 117, 118, 172, 182, 184, 185, 189, 197, 205, 206

**Landrights** • i, ii, iii, vi, ix, xii, 7, 10, 18, 19, 21, 22, 23, 24, 26, 37, 38, 39, 40, 42, 45, 46, 138, 141, 146, 154, 164, 168, 169, 170, 172, 175, 183, 187, 190, 192, 196, 197, 199

**Mining** • 4, 5, 12, 23, 59, 61, 70, 72, 98, 143, 200, 227

**Mitchell County, North Carolina** • i, 1, 4, 58, 60, 63

**National Environmental Policy Act (NEPA)** • i, 1, 13, 17, 19, 203, 204, 205, 206, 212, 221, 223

**National Historic Preservation Act (NHPA)** • i, 14, 32, 129, 192, 194, 195, 223

**National Register of Historic Places (NRHP)** • i, iii, 40, 129, 192, 194, 201, 215

**Parks** • iii, iv, vi, viii, 24, 41, 42, 46, 124, 184, 185, 186, 222

**Powerhouse** • ii, iii, v, 1, 4, 18, 23, 24, 27, 28, 31, 32, 33, 34, 37, 39, 46, 98, 129, 139, 151, 158, 168, 170, 190, 191, 192, 193, 194, 195, 198

**Preferred Alternative** • iv, viii, ix, 16, 17, 19, 44, 46

**Prime farmland** • xii, 52, 53, 54, 118, 137, 138, 139, 205, 223

**Recreation** • i, iv, v, vi, vii, x, 35, 39, 41, 42, 43, 44, 45, 63, 70, 120, 121, 122, 186, 187, 188, 189, 190, 191, 197, 199, 202, 205

**Scoping** • ii, 9, 10, 12, 17, 47, 223,

**Sediment** • i, ii, iv, v, vi, viii, xii, xv, 1, 4, 5, 7, 8, 11, 17, 18, 19, 23, 25, 26, 27, 28, 31, 32, 33, 34, 35, 37, 41, 42, 43, 45, 51, 55, 59, 61, 65, 66, 67, 68, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 95, 98, 99, 100, 111, 128, 137, 138, 139, 140, 141, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 167, 169, 170, 173, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 187, 188, 189, 190, 192, 193, 194, 195, 196, 197, 198, 199, 200, 202, 203, 208, 223, 224, 226, 231

---

**Sediment control** • v, 7, 41, 68, 157, 159

**Sediment loading** • 11, 140

**Soil** • xii, 52, 53, 54, 55, 56, 75, 78, 79, 89, 90, 125, 137, 138, 139, 141, 163, 205, 223, 225, 228, 229, 232

**State Historic Preservation Officer (SHPO)** • 14, 192, 193, 194, 195, 215

**Suspended sediment** • xv, 65, 66, 67, 68, 69, 70, 143, 144, 147, 148, 153, 155, 156, 165, 177, 178

**Tennessee Wildlife Resources Agency (TWRA)** • iv, viii, 6, 24, 25, 40, 83, 87, 109, 110, 122, 123, 124, 125, 184, 189, 190, 224, 226, 232

**U.S. Army Corps of Engineers (USACE)** • 7, 12, 14, 71, 90, 91, 92, 96, 99, 123, 164, 166, 209, 214, 224, 231

**U.S. Fish and Wildlife Service (USFWS)** • 15, 90, 109, 113, 216, 217, 224, 225, 226, 229, 233

**Unicoi County, Tennessee** • i, 1, 58, 60

**Valley and Ridge Physiographic Province** • 55, 97, 101

**Washington County, Tennessee** • i, 1, 47, 58, 60, 130, 131, 132, 133, 134

**Water control** • 27, 32, 224

**Water quality** • vi, 7, 13, 14, 38, 41, 42, 59, 61, 62, 65, 67, 90, 124, 142, 144, 146, 147, 149, 150, 151, 152, 204, 207, 216

**Wells** • vii, 11, 43, 57, 141, 142, 143, 208

**Wetlands** • v, vi, vii, x, xiii, 7, 11, 13, 14, 34, 35, 38, 41, 42, 43, 45, 89, 90, 91, 92, 95, 96, 97, 104, 112, 113, 114, 116, 117, 118, 149, 162, 163, 164, 165, 166, 167, 171, 172, 175, 176, 178, 182, 187, 190, 196, 200, 201, 207, 221, 224, 226

**Wildlife management** • i, iii, iv, vi, viii, 6, 7, 28, 33, 40, 41, 42, 123, 124, 184, 185, 186, 187, 188, 189, 190, 191, 197

**Yancey County, North Carolina** • i, 1, 4, 58, 60