

4. SUPPORTING INFORMATION

4.1 List of Preparers and Contributors

Steven L. Akers

Position: Land Use Specialist, TVA Little Tennessee Watershed Team
Education: B.S., Elementary Education; M.S., Educational Administration and Supervision
Experience: 9 years Land Use Specialist, 3 years Reservoir Lands Planning

Judith P. Bartlow

Position: (retired) Natural Areas Biologist, TVA Watershed Technical Services
Education: B.S., Outdoor Recreation
Experience: 18 years experience in Natural Areas Planning/Management

Spencer Boardman

Position: Planning Specialist, TVA Watershed Technical Services
Education: B.S., Biology; M.S., Forest Land Management and Administration, Registered Recreational Professional
Experience: 18 years experience with TVA; Commercial Recreation Planner; Specialist for Tourism Development; Field Representative for Industrial Development (Existing Industries Program); Project Leader for Reservoir Lands Planning

Donald C. Becker

Position: Facilitator/Project Leader, Lenoir City Land Management Office (Little Tennessee Watershed Team)
Education: B.S., Forest Management
Experience: 19 years experience in Natural Resource Land Management Activities

Carline C. Bryant

Position: (retired) Land Use Specialist, Navigation, TVA River Operations
Education: B.S., Education, Social Studies and Sciences
Experience: 28 years experience at TVA

Robert E. Buchanan, Jr.

Position: Program Administrator, Navigation, TVA River Operations
Education: B.S., Civil Engineering, Registered Professional Engineer
Experience: 31 years of experience in TVA Economic and Navigation Development, including Waterfront and Non-waterfront Industry and Business and Barge Terminal Development, including 17 years in support of Land Use Planning Efforts

J. Leo Collins

Position: Botanist, TVA Watershed Technical Services
Education: Ph.D., Plant Taxonomy
Experience: 23 years experience in Terrestrial Vegetation and Rare Plant Impact Assessment

Dennis T. Curtin

Position: Program Administrator, Regional Heritage, TVA Watershed Technical Services
Education: B.S., Forestry Management; M.S., Forestry
Experience: 21 years experience in TVA Forest Management, Timber Harvesting, and Environmental Reviews; 4 years experience with Timber Harvesting Research at the American Pulpwood Association; 4 years experience teaching at Alabama A & M University

Darrell Cuthbertson

Position: Land Use Specialist, TVA Little Tennessee Watershed Team
Education: B.S., Forestry
Experience: 10 years TVA Forester, 2 years Land Use Specialist

Harold M. Draper

Position: NEPA Specialist, TVA Environmental Policy and Planning
Education: D.Sc., Engineering and Policy; B.S., Conservation, Botany
Experience: 9 years experience in Environmental Impact Assessment and 7 years experience in State Renewable Energy Programs

James H. Eblen

Position: (retired) Economist, TVA River Operations (Contractor)
Education: Ph.D., Economics; B.S., Business Administration
Experience: 33 years experience in Economic Analysis

Charles H. Ellenburg

Position: Land Use Specialist (Recreation), TVA Mideast Region
Education: B.S., Recreation and Park Administration
Experience: 28 years experience in Recreation Planning

Patricia B. Ezzell

Position: Historian, TVA Watershed Technical Services
Education: M.A., History, emphasis in Historic Preservation; B.A., Honors History
Experience: 12 years experience in Cultural Resources Management

Glenda Gose

Position: Geographic Information Specialist, TVA Energy Research and Technology Applications
Education: Geographic Information Technology, pending
Experience: 11 years experience in Geographic Information Systems

Lee F. Graser

Position: Specialist, Watershed Technical Services
Education: B.A., Zoology; M.S., Aquatic Biology; M.S., Environmental Engineering
Experience: 24 years experience in Environmental Regulations, Groundwater/Water Quality Assessment, Environmental Resource Management, Energy Production, and Aquatic Biology

T. Hill Henry

Position: Zoologist, TVA Watershed Technical Services
Education: M.S., Zoology
Experience: 8 years experience in Monitoring Terrestrial Endangered Species

A. Eric Howard

Position: Archaeologist, TVA Watershed Technical Services
Education: M.A., Anthropology
Experience: 4 years experience with TVA and Section 106 compliance; previous experience includes 7 years in Southeastern United States and Caribbean Archaeology

Ruth M. Horton

Position: Land Use Specialist, TVA Watershed Technical Services
Education: B.A., History
Experience: 22 years experience in Planning and Communications

Wesley K. James

Position: Regional Wildlife Biologist, TVA Mideast Region
Education: B.S., Wildlife & Fisheries Science
Experience: 23 years experience in Terrestrial Wildlife and Wetlands Management and Environmental Impact Evaluation

James Ledford

Position: (retired) Land Use Specialist, TVA
Education: B.S., Agronomy
Experience: Agriculture Licensing, 26a Permitting, Boundary Maintenance, Wetland Delineation, Prime Farmland Assessment, Wildlife Habitat Management, Threatened and Endangered Species Reviews

P. Alan Mays

Position: Environmental Scientist, TVA Public Power Institute
Education: B.S., Plant and Soil Science
Experience: 23 years experience in Soil-Plant-Atmospheric Studies, Soil Classification, Interpretation, and Sampling

Brenda L. McHone

Position: Clerk
Education: High School
Experience: 5 years experience in Nuclear Power, 11 years experience in Land Management

Jack W. Miller

Position: Land Use Specialist, TVA Little Tennessee Watershed Team
Education: B.S., Forest Management
Experience: 24 years Land Use Specialist - TVA

Roger A. Milstead

Position: Technical Specialist, TVA River Operations
Education: B.S., Civil Engineering
Experience: 24 years experience in Floodplain and Environmental Impact Evaluation; Registered Professional Engineer

Jennifer Moses

Position: Senior Toxicologist, TVA Energy Research and Technology Applications
Education: M.S., Biology
Experience: 23 years experience in Aquatic Biology, Aquatic Toxicology, and Water Quality

Charles P. Nicholson

Position: NEPA/Endangered Species Specialist, TVA Environmental Policy and Planning
Education: B.S., Wildlife and Fisheries Science; M.S., Wildlife Management
Experience: 22 years Endangered Species Act Compliance, NEPA Reviews and Compliance, Wildlife and Endangered Species Management and Assessment

George E. Peck

Position: Aquatic Biologist, TVA Watershed Technical Services
Education: B.S., Secondary Education (Biology); M.S., Biology
Experience: 18 years of experience in Aquatic Biology

Samuel C. Perry

Position: (retired) Landscape Architect, TVA Watershed Technical Services
Education: B.S., Landscape Architecture
Experience: 30 years of experience in Visual Impact Analysis and Site Planning

Peggy W. Shute

Position: Aquatic Biologist, TVA Watershed Technical Services
Education: M.S., Zoology
Experience: 19 years of experience with Rare Fish Issues

Charles R. Tichy

Position: Historic Architect, TVA Watershed Technical Services
Education: B.S., Architecture; M.A., Historic Preservation
Experience: 32 years experience in Historic Preservation and Historic Restoration

Richard L. Toennisson

Position: Regional Environmental Scientist, TVA resource Stewardship, Mideast Region
Education: B.S., Forestry; M.S., Forestry/Industrial Engineering (Minor)
Experience: 20 years experience in Forestry Research, Management and Industry Development; 5 years experience in environmental science

Cheryl V. Ward

Position: Project Leader, TVA Watershed Technical Services
Education: B.S., Mathematics; M.Ed., Psychology; M.S., Industrial Engineering
Experience: 16 years experience in Process Improvement; 1 year experience in Project Management

Gary G. Williams

Position: Field Representative, TVA Little Tennessee Watershed Team
Education: B.A., Environmental Studies (pursuing)
Experience: 12 years experience in Remote Sensing/GIS and 7 years in Water Resource Management

Cassandra L. Wylie

Position: Environmental Modeler, TVA Public Power Institute
Education: B.S., Forestry; M.S., Forest Biometry
Experience: 12 years in Statistical Analysis of Air Quality Data and 3 years in Air Dispersion Modeling

Richard Yarnell

Position: Archaeologist, TVA Watershed Technical Services
Education: B.S., EH
Experience: 28 years in the Identification, Evaluation, and Treatment of
Archaeological Resources; 9 years at TVA

Bruce L. Yeager

Position: Project Manager (Principal Environmental Scientist for Water),
TVA Watershed Technical Services
Education: B.S., Zoology; M.S., Zoology (Systems Ecology)
Experience: 22 years experience Environmental Assessment - Energy
Production, Land Management, Water Resource Issues; 9 years
NEPA Project Management Experience

4.2 Distribution List

4.2.1 Federal Agencies

U.S. Department of the Interior Director, Office of Environmental Policy and Compliance; Mr. Willie R. Taylor
U.S. Fish and Wildlife Service, Dr. Lee A. Barclay
U.S. Army Corps of Engineers, Lt. Col. Christopher Young
Cherokee National Forest, Ms. Anne J. Zimmerman
Great Smoky Mountains National Park, Mr. Philip Francis

4.2.2 State Agencies

Tennessee Department of Agriculture, Mr. Louis Buck
Tennessee Department of Economic and Community Development, Mr. Wilton Burnette
East Tennessee Development District, Mr. Robert Freeman
Tennessee Historical Commission, Mr. Herbert Harper,
Tennessee Department of Environment and Conservation, Mr. Justin P. Wilson
Division of Recreation Services, Ms. Joyce Hoyle,
Division of Water Pollution Control, Mr. Greg Denton,
Division of Air Pollution Control, Ms. Tracy R. Carter
Division of Natural Heritage, Mr. Reggie Reeves
Tennessee Wildlife Resources Agency, Mr. Dan Sherry
Tennessee Department of Transportation, Mr. Glen Beckwith

4.2.3 Libraries

Blount County Library
Greenback Public Library
Lenoir City Public Library
Loudon Public Library
Madisonville Library
Philadelphia Public Library
Sweetwater Public Library
Vonore Library
Tellico Village Library
Knox County Public Library,
Farragut Branch

4.2.4 Individuals and Organizations

Mr. & Mrs. John R. Abel
Advocate/Democrat
Dr. Richard Allen, Cherokee
Nation of Oklahoma
Earl and Sandra Ammon
Dr. David T. and Gail Atkins
Mr. & Mrs. Guy E. Baker
Mr. J. H. Barton
Jerry and Mary Lou Barr
Ms. Joyce Bear, Muscogee
(Creek) Nation of Oklahoma
Mr. Caron N. Beard, Chota
Canoe Club
Mr. Jerry J. Bellon
Mr. Doug Berry, Loudon County
Industrial Commission
Mr. Bion L. Bierer
Les and Candace Bilek
W. Dewayne and Cindy
Birchfield
Mr. James Bird, Cultural
Resource Office
Mr. William E. Bird
William H. and Betty Blair
Mr. David L. Bluford
Mr. Click Boone
Ms. Mikki Boyatt
Mr. H. Edward Boyce
Timothy and Rebecca W. Boyd
Mr. & Mrs. Dick Brady
Hugh and Jody Brashear Jr.
Ms. Alison Brayton, Tennessee
Department of Environment and
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Mr. & Mrs. Charles Britnell
Ted and Olive Brookshire
Jack and Betty Lou Brotherton
Mr. Gene Brown, Blount County
Regional Planning Commission
John T. and Katherine Brown
Mr. Ellis Brown
Mr. Kenneth R. Buchanan
Mr. Bobby Buckner, The News
Herald
Mr. Herbert H. Buckner
Mr. Michael A. Butler ,
Tennessee Conservation League
Dr. Don A. and Joan Burgett ,
Tellico Village Homeowners
Association
Mrs. Doris Burns
Steven K. and Jeanie Burrell
Mr. B. Shane Burris , Monroe
County Industrial Development
Board
Larry and JoEllen Campbell
Mr. Allan Carter
Mr. Milton Cate, Tellico Village
Property Owners Association
Dr. Jefferson Chapman, The
University of Tennessee
Mr. Harry Ray Child
Doug and Dianne Christman
Mr. Erich Clauberg
Mr. Robert Coates
Mrs. Jean Coates
Mr. Jim Colborn
Mr. John E. Cole
William A. and Lynn Coning
William and Gertrude Cope
Trevett L. Couden M.D.
Ms. Violet Cranfield
George and Mary Cushman
Mr. & Mrs. Thomas J. Daly

Mr. John R. Davis
Robert W. and Mary H. Davis
Mr. Richard D. Dawson
Mr. Jack N. Debussey
Mr. Edwin Decker
Mr. Ralph S. Depew
George and Ruth Dewalt
Scott and Penny Donaldson
James and Michele Donnelly
Mr. Bill Drerup
Mr. Daniel Duckett
Betty and Kelly Earls
Mr. Raymond Earls
Dudley and Barbara Eastbourne
Mr. Edward W. Eberle
Mr. Walter F. Emmons
Mr. Kenneth D. Enzor
Mr. R. Tim Epps
Dean and Debbie Evans
Mr. Gary Farlow
Ms. Mary Farmer
Mr. Henry Fazzino
James W. and Marilyn Fella
Mr. Robert Filip
Mr. Darril Fillers
Mr. & Mrs. Charles G. Finn
Mr. Eugene E. Fischer
Mr. Gerald T. Fish
John and Alyce Fleishman
Alan and Elva J. Follows
Mr. & Mrs. S. Franklin Forkner,
Forkner Landscape Company
Foothills Pointe Owners
Association, Inc.
Mr. C. Joseph Fowler
Robert D. and Jean Fox
Mr. Donald G. Fraley
Mr. D. D. Frazier
Mr. George C. Frazier
Ms. Peggy French
E. D. and Panella Frick
Mr. Charles P. Furney Jr.
Gil and Carol Gallagher
Stephen and Mary Ann Geoffrey
Mr. Robert H. Gibson III
William and Jane Gormley
William and Judy Gosch
Caaj and Yellie Greebe
Mr. David Grissom, City of
Loudon
Gary and Lou Grove
Ms. Vickie M. Gunnels
Mr. L. Russell Hagood
Bruce O. and Lila Hall
Mr. James G. Hamilton
Mr. Richard S. Hands
Donald D. and Suzanne Hansen
Mr. R. M. Harrington
Mr. Rodney B. Harrington
Mr. Shan Harris, LifeStyle Realty
Group
Mr. Charlie Harrop
Mr. Anthony G. Hartman
Mr. Toye Heape, Tennessee
Commission of Indian Affairs
Mr. & Mrs. William Heineken
Ms. Mary Hendershot
Mr. Charles Henline
Mr. Albert C. Hill
Robert and Laurie Hilpert
Mr. Michael Hines, Southeast
Environmental Engineering, LLC
James S. and Hazel Holcomb,
Tennessee Valley Sportsman
Club
Mr. Jerry D. Holloway
Mr. Gary L. Howell
Mr. Mike Huddleston
Ms. Bettye Huddleston

Tellico Reservoir Land Management Plan

Mr. Bart Iddins	Bill and Donna Long
Mr. Steven C. Inman	Harold and Grace Long
Mr. Charles B. Jenkins	Mr. Charles H. Lunsford
Mr. Marion Bruce Jenkins	Mr. & Mrs. Kevin O. Luthenauer
Mr. Dan Jensen	Michael J. and Mary Ellen Lynch
Mr. Eric Johanson	Mr. & Mrs. James M. MacColl
David G. and Mary Johnson	Mrs. Gertrude E. Mansell
Ms. Kathy Jones	Mr. J. Samuel Marcy
Ms. Jane Josefchuk	Nicholas R. and Sue Marler, Rambling Rose Farm
Leonard and Amber Juckett	Mr. Jerry Masingo
Ms. Jane Kawakami, Guy's and Gal's Bass Anglers	Mr. Bill Matlock
Marvin E. and Patsy C. Keeble	Mr. Jimmy Matlock
Jack L. and Connie Keen	Mr. George W. Matthews
Mr. Donald R. Kegley	Ms. Evelyn Bussell Matthews
Richard L. and Susan Kelts	Mr. Steven P. Mattis
Fegan and Dana Kenny	Ms. Kaleana K. Maynard
Darwin T. and Rita Kerr	Ms. Joanna W. McCall
Ms. Susan Kincaid	Mr. Danny McCarter
Mr. Randy Kincer	Ms. Judy Pinkston McCarthy
Mr. Rick L. Kirby, Jordan, Jones, and Goulding	Gregory and Cindy McCulloch
Mr. Curt S. Kloman	Ms. Janet L. McGinn
Mr. Michael J. Kolumba	Ms. Clara D. McKelvey
Eugene A. and Jeanne Kray	Ms. Nancy J. McKnight
Fred and Marilyn Kuhagen	Robert J. and Betty Meier
Steve and Pat Lafon	Klaus and Gisela Metzelder
Mr. William T. Langford	Mr. R. Keith Milam
Mr. David L. Lawson, Sharp Contracting, Inc.	Donald R. and Jan Miller
Mr. Dwight Lee	George and Tammy Miller
Mr. Gordon Lee	Mr. Donald L. Mills
John and Marianne Leech	Don R. and Vickie Mink
Ms. Joyce Leo	Mr. William G. Minser
Mr. & Mrs. Glen Lett	Mr. Henry Mitchell, Loudon Regional Planning Commission
Dr. & Mrs. James N. Liles	Jim and Joyce Morell
Mr. Joy Locke	Mr. Jack Morris
Mr. Donald D. Logsdon	Ms. Julie Moss, United Keetoowah Band

Mr. Bill Murphy
Ms. Stephanie Myers, Loudon
County Office of Planning
John J. and Amelia Myers
Mr. Todd A. Napier AICP,
BWSC
Mr. Steven G. Naugle, Federal
Energy Regulatory Commission
Mr. Dawayne L. Nelson
Mr. Randall A. Neuhaus PE,
S&ME Environmental Services,
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Mr. Russ Newman Loudon
County Planning Office
Mr. Dale A. Noll
Ludwig and Sally Oster
Donald Ray and Alice R. Overton
Mr. Tony Papa
Mr. Daniel Patty
Mr. Mike Paulsen, Fort Loudoun
Medical Center
Mr. Ray Payne, Sierra Club's
Tennessee Chapter
Mr. Bart N. Peak Jr.
Ms. Loren F. Peck
Honorable Tom Peeler
Mr. Robert J. Pennington, Tellico
Reservoir Development Agency
Mark W. and Ruth Peranich
Mr. Donald A. Perrine
Carl and Marilyn Peterson
Mr. Robert C. Pfeiffer
Mr. O. R. Phelps
Pat Phillips, Loudon County
Planning Department
Donald R. and Judy Phillips
Ms. Amanda M. Pierce
Mr. G. A. Ploeger
Stephen R. and Jeanne Porter
Mr. & Mrs. John F. Price Jr.
Mr. Charles E. Price
Dr. James R. Pritchard
Jack L. and Norma Racke
Peter A. and Marianne Raft
Mr. & Mrs. Alan O. Ray
Mr. Phillip L. Reed
Mr. Terry Reynolds, Arcadis
Geraghty and Miller, Inc.
Mr. William C. Reynolds Jr.
Richard F. and Sarah Reynolds
Lee and Remo H. Riciputi
Mr. Gene Roberts
Dr. David B. Robertson
Mr. Richard F. Rohr
F. David and Loraine Rose
Mr. William P. Rotmeyer
Mr. R. Michael Ruppert
Mrs. Barbara Russell, Loudon
County Visitors Bureau
Mr. Robert Sampson
Gary and Sharon Santini
Mr. & Mrs. George H. Sarten Sr.
Mr. Paul V. Scanlan
Nick P. and Fredine Schick
Mr. Howard L. Schmidt
Gary and Janice Schneck
Mr. Jerome Schultz
Mr. David L. Schweikert
Ms. Sharon Seay
Ms. Toni J. Shaw
Mr. G. Marshall Sheldon
Mr. Robert P. Shuhi
Dion Shults
Mr. Mike Simpkins
Cecil O. and Constance L.
Simpson
Ms. Marcella C. Sissom
Mr. & Mrs. Larry P. Smartt
B. M. and Karen Smith

Tellico Reservoir Land Management Plan

Gary and Alice Smith
Mr. Maurice E. Smith
Jackie Smith
Mr. Cecil W. Smith
Mr. Ronald E. Soard
Ms. Charlotte Soltman
Mr. Rene' Sonnenfeldt, Tellico
Village Property Owners
Association
James H. and Sheila Sonntag
Ms. M. Allison Sousa, Loudon
County Chamber of Commerce
Donald J. and Jeanne Spaeth
Mr. Arthur Spurrier, Tellico Area
Services System
Mr. Larry B. Stargel
Mr. Charles H. Sterling, Sterling
Engineering, Inc.
Don L. and Carol Stieghan
Ron and Eva Stob
Larry and Angie Struttmann
Mr. Glenn Swafford
Dale and Flossie Tallent
Honorable Fred J. Tallent
Tellico Village Yacht Club
Mr. Frank H. Thomas
T. R. and Patricia Thomas
Mr. Charles D. Thompson
Mr. Paul W. Thompson
Mr. Preston B. Thompson
Mr. W. D. Thompson
Ms. Jo Ann Thompson Ed.D
Mr. Bob Thornton
Ms. Gale Thrower, Poarch Band
of Creek Indians
Mr. & Mrs. Melvin Thurman
Ottice and Mary L. Tidwell
Ms. Rebecca Lee Tolbert
Wayne and Virginia Tolbert
Mr. John T. Tuck
Ms. Janice Tucker
Mr. Norb Twillman, Fox Road
Boat Dock
Keith and Karen Urban
Mr. C. R. Vanosdale
Mrs. Beverly R. Veal
Mr. Jimmy D. Vineyard
Ms. Nikki S. Vineyard
Dr. Mary E. Wahl
William R. and Marjorie K.
Waldrop
Mr. James W. Walker
Ms. Pam Walker
Don and Marlene Wanamaker
Mr. Jason W. Ward
Mrs. Estelle Bussell Ward
Mr. Gerald B. Wenzel
Dr. & Mrs. Keith C. and Jenny S.
White
Mr. J. David Whitehead
Mr. James L. Wilbanks Jr,
Tennessee Valley Sportsmans
Club
Mr. J. Worth Wilkerson, Village
Connection
Keith and Lisa Williams
Mr. B. J. Williams
Mr. Al Wilson, Cooper Homes
Ms. Sharon D. Wilson
Mr. Curtis Wolfe
Joseph T. and Babe Woznitski
Wayne and Carol Yarian
Mr. Robert J. Yingling Sr.
Gerald H. and Joan K. Zaar
Mr. Victor F. Zaidel
Mr. Charles Zimmerman
Ms. Cynthia Zurhellen

4.3 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 best management practices, 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.

best management practices (BMPs)- a practice, or combination of practices, that has been determined, after problem assessment and examination of alternatives, to be the most effective, practical means of preventing or reducing the amount of pollution generated by nonpoint sources to a level compatible with water quality.

Contract No. TV-60000A - an agreement between the TVA and Tellico Reservoir Development Agency to provide comprehensive Industrial, Residential, Commercial, Recreational, and Public Use Recreational development activities. A land use plan and development standards were incorporated into the agreement. The agreement was signed on August 25, 1982.

cultural resources - any historic structure, historic site, or archaeological site that is protected by the National Historic Preservation Act (NHPA) or other preservation legislation. The broad mission of TVA Cultural Resources includes evaluating, protecting, and preserving significant cultural, archaeological, and historic sites and structures, and maintaining a record of the history of TVA.

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).

dayboard/daybeacon - structures placed on the shoreline to facilitate navigation.

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 recreational opportunities such as public boat access, bank fishing, picnicking, etc.

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

dissolved oxygen (DO) - the oxygen dissolved in water, necessary to sustain aquatic life. It is usually measured in milligrams per liter or parts per million.

drawdown - lowering the water level in a reservoir to make room for winter and spring precipitation that often fall in higher elevations. The reservoir serves as an emergency storage system to prevent flooding downstream.

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

embayment - a bay or arm of a reservoir.

emergent wetland - wetlands dominated by erect, rooted herbaceous plants such as cattail and bulrush.

Executive Order (EO) - a governmental order issued by the President with force of law.

extirpated - pulled up by the roots; destroyed; exterminated.

fecal coliform - common intestinal bacteria in human and animal waste.

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, and (2) 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.

Greenway - a linear park located along natural features such as lakes or ridges, along man-made features including abandoned railways or utility rights-of-way, which link people and resources together.

The purpose of a Greenway is to create recreational opportunities for the public to enjoy a variety of passive recreational pursuits. Interest in Greenway development grew in earnest out of recommendations in the 1986 Tennesseans Outdoors and the 1986 President's Commission on Americans Outdoors reports which highlighted means to link our communities together and preserve recreation opportunities for future generations.

Greenways are now recognized for their aesthetic value, the preservation of valuable open space for plants and wildlife, and the vast array of recreation opportunities afforded future generations. This is all part of the Statewide Greenway Project announced by Governor Don Sundquist in May of 1996 and is defined as "multiple use corridor that respects the inherent qualities of natural systems and accommodates human-made systems in a way that is compatible with nature." Greenways generally require some infrastructure such as trails, parking lots, and restrooms, and the primary focus is on recreation.

Habitat protection area - These are designed to protect populations of plant and animal species that have been identified or proposed as endangered or threatened by the U.S. Fish and Wildlife Service or as endangered, threatened, or rare and unusual by one or more of the seven Tennessee Valley states.

Hydrologic Unit Code (HUC) - watersheds across the United States are delineated by the U.S. Geological Survey using a nationwide system based on surface hydrologic features. This system divides the country into 21 regions (2-digit), 222 subregions (4-digit), 352 accounting units (6-digit), and 2,262 cataloguing units (8-digit). A hierarchical HUC consisting of 2 digits for each level in the hydrologic system is used to identify any hydrologic area.

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).

ingress/egress rights - outstanding rights of ingress to (right to enter) and egress from (right to exit) the reservoir pursuant to a deed or other similar document. In accordance to Contract No. TV-60000A (Attachment C) and in particular to the Tellico Reservoir, this in one of the conditions that must be met before a request for a privately-owned, water use facility can be considered for approval.

During the formative years of the Tellico Project, some of the lands purchased by TVA were subject to rights of ingress/egress, which gave adjoining land owners certain access rights across a portion or all of TVA property from their remaining property. The primary purpose for such rights was for the continuation of the watering of livestock in the creek, stream, or river which had been the custom of the former property owner. However, through the years the presence of livestock and the need to water them have diminished and been replaced by the desire for water use facilities such as docks, mooring posts, shoreline stabilization, etc. This helps explain the reason some areas having such deeded rights are more conducive to the watering of livestock than for the use and authorization of water use facilities. Many of the areas with ingress/egress rights are separated from the main reservoir by the new highways created/adjusted for the Tellico Project. Some are in very isolated areas that are now covered with functional wetlands or support identified sensitive resources.

macroinvertebrates - aquatic insects, snails, and mussels whose species, genus, etc., can be determined with the naked eye.

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 (msc) - an elevation typically 5 feet above the top of the gates of a TVA dam. It is often the property boundary between TVA property and adjoining private property.

NEPA (National Environmental Policy Act) - Legislation signed into law in 1970 which, among other provisions, requires U.S. government agencies to prepare environmental reviews on proposed policies, procedures, plans, approvals, and other proposed federal actions.

neotropical migrant birds - birds which nest in the United States or Canada and migrate to spend the winter in Mexico, central America, the Caribbean, or South America.

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 which, 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.

Public Law 87-852 - This act approved on October 23, 1962, authorizes the heads of executive agencies of the United States, including wholly-owned corporations, to grant easements over real property of the United States under their control for rights-of-way or other purposes. Term or permanent easements may be granted to state and local governments or private corporations or individuals. They may be made without monetary or other consideration, including the acquisition of an interest in other real property. TVA's General Counsel has determined the provisions of this act are fully available to TVA and its use has been adopted for a variety of purposes other than rights-of-way, such as recreation or industrial easements. The grantor has considerable flexibility in establishing terms and conditions under this type easement, and TVA has used the Public Law 87-852 authority extensively since its enactment.

recreation easement - this is one of the three conditions (see **residential access**) that must be met prior to the approval of private water use facilities along the Tellico Reservoir. In order to qualify, the adjoining property must lie within 100 feet of the 820-foot contour and abut those areas designated for Cultural/Public Use/Open Space Areas, Public Use Recreation Areas, and Private Residential Areas. This policy is unique to the Tellico Project. Under Alternative A, this procedure will remain unchanged. Under Alternative B, areas that qualify will be refined to the point that excludes areas that require crossing county/state highways, are locked from the main reservoir by relocated highways, or are in areas that have identified sensitive resources.

residential access - request for privately-owned, water use facilities will be considered if it meets one of the following conditions: (1) the adjoining private

property lies within 100 feet of the 820-msl contour and abuts those areas designated for Cultural/Public Use/Open Space Areas, Public Use Recreation Areas, and Private Residential Areas; (2) the adjoining private property has outstanding rights of ingress to and egress from the reservoir pursuant to a deed or other similar document regardless of the distance from the 820-msl contour; or (3) the adjoining property was transferred by TVA to the Tellico Reservoir Development Agency pursuant to Contract No. TV 60000A and the proposed request meets the requirements established in Attachment B.

Prior to the development of the Tellico Reservoir Land Management Plan, the above statement from Attachment C of Contract No. TV-60000A regulated the landrights and locations of water use facilities. During the planning process, efforts were made to clearly define the location for these described areas to eliminate some of the confusion concerning the tolerance/placement of a private water use facility. The maps generated by this plan combined current mapping technology with the residential access statement from Contract TV-60000A to create a clearly defined location of the areas where private water use facilities can be considered for approval. This same process identified potential residential areas that cross high-traffic highways or areas that are locked from the mainstreams by the presence of relocated highways. Areas defined as such are no longer included in the residential access statement.

In the early years of the Tellico Project, several private water use facilities were approved in areas that did not comply with the residential access statement. This is largely due to minor discrepancies of the initial maps and/or lack of a clear understanding of this innovative procedure of approving private access to the waters of Tellico Reservoir. No other TVA reservoirs employed such methods for residential access. As a result, there were several areas that developed residentially in locations that could not be allowed as defined by the above access statement. In this plan, we recognized some of these areas and designated the remainder of the developments as residential.

As in every request for private water use facilities, the approval is subject to investigation or mitigation of adverse impacts to natural or cultural resources.

resource management - A process or system of decision-making whereby resource use, conservation or environmental policies and practices are devised and implemented. Resource management can involve the development or conservation of resources over different spatial scales, ranging from a single product or service (e.g. a forest or fishery) to the global ecosphere.

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

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

river corridor - linear greenspace along both streambanks of selected tributaries entering a reservoir managed for light boat access at specific sites, riverside trails, and interpretive activities.

The purpose of a river corridor is to afford opportunities for the recreating public to enjoy natural settings in a riverine environment. Portions of the Tellico River have these characteristics and are worth preserving for future generations. The upper Tellico River is predominantly undeveloped, with some exceptions where subdivisions have sprouted or adjoining private land owners have developed private water use facilities. A portion of the Tellico River offers free-flowing water which transitions to a lake environment and flat water. Much of the river is not navigable for large boats, due to inadequate year-round water depth or underwater obstructions.

riverine - having characteristics similar to a river.

safety landing - A "safety landing" or "safety harbor" is a place where commercial traffic can moor temporarily during inclement weather, mechanical difficulties, or other operational emergency situation that requires a temporary stoppage along the river. As in all safety landings along the commercial navigation channel on the Tellico Reservoir, construction of water use facilities and shoreline alterations within the marked limits is prohibited. The only acceptable improvement would be the stabilization of the shoreline for the control of erosion.

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 within TVA 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.

shoreline - the line where the water of a TVA reservoir meets the shore when the water level is at the summer operating range which is 812-813 elevation for Tellico Reservoir.

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

sensitive resources - As defined by TVA, include resources protected by federal law or executive order and other land features/natural resources TVA considers important to the area viewscape or natural environment.

Shoreline Aquatic Habitat Index (SAHI) - the index used to determine quality of shoreline aquatic habitat, based on seven characteristics important to support good populations of sport and commercial fish.

Shoreline Management Initiative (SMI) - an assessment of residential shoreline development impacts in the Tennessee Valley. TVA completed an EIS on residential shoreline development impacts throughout the Tennessee Valley.

stratification - the seasonal layering of water within a reservoir due to differences in temperature or chemical characteristics of the layers.

structure profile - A contour established by TVA along the Tennessee River and tributary reservoirs which marks the elevation above which structures are permitted on all lands which TVA either owns or on which TVA has certain landrights. Buildings for human habitation or any other form of development subject to significant damage are not permitted below this elevation. The profile is developed to avoid increasing the flood damage potential in areas affected by reservoir operations.

substrates - the base or material to which a plant is attached and from which it receives nutrients.

summer operating range - the level to which reservoirs are filled during the summer; for Tellico Reservoir, the summer operating range is 812-813 elevation. Where storage space is available above this level, additional filling may be made as needed for flood control.

Tellico Reservoir Development Agency (TRDA) - a public corporation created by the Tennessee Legislature in April 1982 (Chapter 679, codified as Section 64-1-70 et seq., Tennessee Code Annotated). This legislation provided “*The agency is created for the purpose of developing and effectuating plans and programs for the comprehensive development of, including acquisition, operating, managing, selling, and leasing and development of, all or a portion of the lands lying within the Tennessee Valley Authority Tellico Reservoir project...*”

Under the act creating TRDA, it is governed by a full-time director and a nine-person board of directors comprised of three county executives from Loudon, Blount, and Monroe Counties and two additional members from each county approved by the county commissions.

Tennessee Department of Environment and Conservation (TDEC) - the state agency dedicated to protecting the quality of Tennessee's air, land and water and preserving, conserving, enhancing and promoting the state's natural and cultural resources.

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.

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 ground water 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.”

4.4 Acronyms

APE – Area of Potential Effect

ARPA – Archaeological Resources Protection Act

BMPs – Best Management Practices

cfs – cubic feet per second

CFR – Code of Federal Regulations

CWR – Choto Waterfowl Refuge

DU – Ducks Unlimited, Inc.

EA – environmental assessment

EIS – environmental impact statement

EO – Executive Order

FFPA – Federal Farmland Protection Act

IBI – Index of Biotic Integrity

LTRM – Little Tennessee River Mile

MOA – Memorandum of Agreement

msc – maximum shoreline contour

msl – mean sea level

NAAQS – National Ambient Air Quality Standard

NEPA – National Environmental Policy Act

NHPA – National Historic Preservation Act

NMGT – In need of management

NRHP – National Register of Historic Places

PCBs – polychlorinated biphenyls

PSD – Prevention of Significant Deterioration

QU – Quail Unlimited, Inc.

RFAI – Reservoir Fish Assemblage Index

SAHI – Shoreline Aquatic Habitat Index

SMP – Shoreline Management Policy

SMI – Shoreline Management Initiative

TASS – Tellico Area Services System

TDEC – Tennessee Department of Environment and Conservation

TLWMA – Tellico Lake Wildlife Management Area

TMDL – Total Maximum Daily Load

TRDA – Tellico Reservoir Development Agency

TVA – Tennessee Valley Authority

TWRA – Tennessee Wildlife Resources Agency

USACE – U.S. Army Corps of Engineers

USDA – U.S. Department of Agriculture

USEPA – U.S. Environmental Protection Agency

USFS – U.S. Forest Service

USFWS – U.S. Fish and Wildlife Service

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