

because of ownership and permitting and regulatory authority regarding the Fontana Reservoir and Fontana Dam. Correspondence from TVA is included in Appendix P. Many North Carolina agencies have also participated in interagency meetings because of resource and regulatory authority; however, no meetings with Governor Michael Easley’s office have been held. Correspondence from Governor Easley’s office supporting a monetary settlement for Swain County is included in Appendix P.

**5.12 Other Coordination**

In addition to the Swain County Board of Commissioners (noted in the previous section), other government representatives have expressed interest in the project through resolutions, correspondence, and/or attendance at public workshops. The Bryson City Board of Aldermen, through a March 3, 2003, resolution, supported the Swain County Board of Commissioners regarding the request for a monetary settlement for Swain County (see Appendix D).

Appendix D also includes a March 7, 2003, unanimous resolution by the Graham County Board of Commissioners supporting “the construction of the North Shore Road as contemplated by the 1943 Agreement” along with September 18, 2003, correspondence from the Graham County Board of Commissioners supporting the construction of the North Shore Road and requesting that a monetary settlement be offered to Graham County if “environmental issues are too great to overcome to construct the road.”

**5.13 List of Preparers**

The list of preparers for the DEIS is included in Table 5-1.

**Table 5-1. List of Preparers**

Name	Title	Education/Experience	Primary Role
<b>ARCADIS:</b> DEIS; Appendices B,C, E, I, J, K, L, M, N, and O; and Attachments M-7, N-2, and N-12			
Hal Bain	Natural Resources Manager, ARCADIS	Master of Science in Marine Biology, Bachelor of Science in Biology; over 15 years of experience in the natural resources field, including environmental planning, mitigation, conservation and stewardship, and protected species studies	Natural resource investigations, documentation, fieldwork, document review, and quality assurance
Andy Batts, PE	Structural Design Department Manager, ARCADIS	Bachelor of Science in Civil Engineering; over 15 years of experience in bridge design	Investigated major bridge types to determine which might be appropriate on the project
Justin Beard, PE	Traffic Engineer, ARCADIS	Bachelor of Science in Civil Engineering, Bachelor of Science in Environmental Studies; over 5 years of experience in all aspects of traffic engineering	Traffic counts, traffic projections, noise analysis, transportation systems capacity analysis, energy

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Jerry Beckman, PE, PLS	Land Resources Business Practice Manager, ARCADIS	Bachelor of Science in Industrial Technology; over 22 years of experience in civil/site design, surveying, and project and personnel management	Partial-Build Alternative to Bushnell conceptual plan, Partial-Build Alternative to Bushnell and Laurel Branch Picnic Area cost estimates
Steven Bondor, PE	Senior Engineer, ARCADIS	Bachelor of Civil Engineering; over 24 years of experience in project management and technical design of civil engineering projects, including highway drainage design, stream restoration, site and infrastructure design, stormwater management, and construction administration	Floodplains, hydraulics, and cost estimates
Charles Bruton, PhD	Natural Resources Senior Program Manager, ARCADIS	Doctor of Philosophy in Botany, Master of Science in Botany, Bachelor of Science, Biology, over 30 years of experience managing natural resources/permits/mitigation for transportation systems throughout North Carolina	Natural resources quality assurance related to the ECR and intensity threshold definitions
Jason Bulluck	Biologist, ARCADIS	Master of Science in Biology, Bachelor of Science in Biology/Environmental Science; over 5 years of experience with avian ecology research and other NEPA-related natural resources studies	Bird surveys
Edward Cherry	GIS Analyst, ARCADIS	Master of Arts in Applied Geography, Bachelor of Arts in Geography and Political Science, over 8 years of experience in GIS analysis	GIS database and figures
Paige Cureton	Public Involvement Specialist, ARCADIS	Bachelor of Arts in Communications; 6 years of communication strategies experience with over 2 years developing and implementing public participation programs related to NEPA studies	Public involvement program management and documentation
Peter Currie, PE	Natural Resources Department Manager, ARCADIS	Master of Civil Engineering, Bachelor of Science in Civil Engineering; over 33 years of engineering experience, including extensive experience in hydraulics and hydrology, stormwater management, drainage systems, erosion and sediment control, open channel design, impoundments, and floodplain	Floodplains, hydraulics, and cost estimates

Name	Title	Education/Experience	Primary Role
Keven Duerr	Biologist, ARCADIS	management Bachelor of Science in Biology; over 3 years of field experience, including wetland and stream identification, field surveys and data collection, and plant and community wildlife identification	Fieldwork surveys, GIS database, and figures
Melissa DuMond	Environmental Planner, ARCADIS	Master of Public Administration in Environmental Policy and Management (in progress); Master of Natural Resources in Natural Resource Administration (in progress); Bachelor of Science in Environmental Studies; over 5 years of experience in environmental assessment and NEPA compliance	Existing conditions research and writing for land use, socioeconomic and community features, private in-holdings; aesthetic and visual resources analysis, fieldwork surveys, general DEIS document preparation
Marcy Edmondson	Project Assistant, ARCADIS	Over 40 years of administrative/technical editing experience	DEIS formatting and edits
Laura Fisher, PE	Roadway Engineer, ARCADIS	Bachelor of Science in Civil Engineering; over 5 years of experience including roadway construction plans, traffic analysis, and traffic engineering studies	Functional designs and cost estimates
Rob Floyd	GIS Coordinator, ARCADIS	Bachelor of Arts in Geography with a concentration in GIS; over 11 years of experience in GIS analysis and geography	GIS database and figures
Ben Furr	Biologist, ARCADIS	Bachelor of Science in Natural Resource Management – Ecosystem Assessment, with a minor in Soil Science; over 2 years of experience in wetland and stream delineations, natural systems assessments, wetland and stream restoration, mitigation site searches, field surveys and data collection, plant and community wildlife identification, and stream construction management	Fieldwork surveys
Ron Gallagher	Technical Editor, ARCADIS	Graduate studies in Urban and Environmental Policy, Bachelor of Arts in Journalism and History; over 30 years of experience as an editor and writer	Quality assurance
Tyson Graves, PE	Traffic Engineering	Master of Business	Traffic counts, projections,

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	Department Manager, ARCADIS	Administration (in progress), Bachelor of Science in Civil Engineering; over 15 years of experience in all aspects of traffic engineering, including planning, traffic impact analyses, and traffic design plans	and capacity analysis oversight, and traffic safety review
Len Hill, PE	Roadway Design Senior Program Manager, ARCADIS	Master of Civil Engineering, Bachelor of Science in Civil Engineering; over 30 years of experience in all aspects of roadway design and planning	Functional design and cost estimate reviews and quality assurance
Anna Keith	Biologist, ARCADIS	Bachelor of Science in Natural Resources Management; field scientist with over 3 years of experience in natural resource assessments and management and a special emphasis on aquatic populations	Fieldwork surveys
Richard Lee, RLA	Senior Landscape Architect, ARCADIS	Over 30 years of experience in the public and private land development markets, including park and recreation master planning, large and small scale subdivision design; and mixed use developments	Partial-Build Alternative to Bushnell conceptual plan, Partial-Build Alternative to Bushnell and Laurel Branch Picnic Area cost estimates
Robert Lepsic	Biologist, ARCADIS	Bachelor of Science in Biology; over 10 years of field experience, including wetland and stream identification, field surveys and data collection, natural channel design for stream and wetland restoration and mitigation projects.	Benthic macro-invertebrate surveys
D. Scott Manning	Project Engineer, Geotechnical and Dam Safety Department, ARCADIS	Bachelor of Science in Environmental Science and Bachelor of Science in Civil Engineering; over 6 years of experience, including soil mapping for the NRCS and geotechnical investigations	Soils and geotechnical engineering evaluations
Kim Matthews	Biologist, ARCADIS	Master of Science in Natural Resources, Bachelor of Arts in Biology; over 6 years of experience, including wetland delineations, natural resource investigations, USFWS Section 7 investigations, NEPA checklists, and stream and wetland restoration and mitigation projects	Natural resource investigations and documentation, fieldwork surveys, water quality, and GIS database

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Adam McIntyre	Biologist, ARCADIS	Bachelor of Science in Natural Resources; over 6 years of experience in wetland and stream delineations, natural systems assessments, wetland and stream restoration, mitigation site searches, water quality monitoring, plant and community wildlife identification, wetland and stream construction management, and environmental permitting	Natural resource investigations and documentation, and fieldwork surveys
Ken Milam, PE	Senior Traffic Engineer, ARCADIS	Bachelor of Science in Civil Engineering; over 35 years of experience in the traffic-engineering field	Traffic and energy
Kristina Miller, PE	Environmental Planning Department Manager, ARCADIS	Bachelor of Science in Civil Engineering; over 11 years of experience in transportation project development, impact analysis, public involvement, and NEPA analysis	Overall contract oversight, DEIS quality assurance, and project reviews/management
Byron J. O'Quinn, PE	Senior Vice President, ARCADIS	Bachelor of Science in Civil Engineering, Professional Degree in Transportation Engineering; over 38 years of experience in transportation and environmental planning	Overall project oversight, quality assurance, and NEPA technical advisor
Bryon Palmer, PE	Roadway Design Engineer, ARCADIS	Bachelor of Science in Civil Engineering; over 7 years of experience including noise and air quality studies, roadway construction plans, traffic analysis, and traffic engineering studies	Functional designs
Scott Phelps	GIS Specialist, ARCADIS	Bachelor of Science in Recreation Resources Management; over 9 years of experience in GIS analysis	GIS database and figures
Robin Pugh, AICP	Senior Community Planner, ARCADIS	Master of City and Regional Planning, Bachelor of Arts in Design; 16 years of experience in local government planning and over 3 years of experience in environmental assessment and NEPA compliance	Executive Summary, land use impacts, indirect and cumulative impacts, environmental justice, agency coordination documentation
Martha Register	Senior Biologist, ARCADIS	Master of Science in Botany, Graduate study in Local Vascular Flora and Genetics, Bachelor of Science in Food Science; over 10 years of	Natural resource investigations and documentation management, vascular plant surveys, quality assurance,

Name	Title	Education/Experience	Primary Role
		experience in botanical surveys and vegetation community classification	and natural resource sub consultant coordinator
Kevin Scott, PE	Project Engineer, ARCADIS	Bachelor of Science in Civil Engineering; over 12 years of experience providing air quality consulting services including industrial source air permitting, regulatory compliance assistance, and periodic compliance reporting	Air quality impact analysis from construction activities and future vehicular traffic
Steve Scott, PE	Roadway Design Department Manager, ARCADIS	Undergraduate studies in Civil Engineering; over 20 years of experience in roadway design	Functional design review
Chris Sheats	Biologist, ARCADIS	Bachelor of Science in Botany; over 2 years of project experience that includes wetland and stream identification, stream and wetland mitigation, and threatened and endangered species surveys	Natural resources investigations/surveys
Greg Slater, PG	Geologist, Geotechnical and Dam Safety, ARCADIS	Bachelor of Science in Geology; over 6 years of field and task management experience, including geotechnical investigations, geotechnical instrumentation, dam and tunnel inspections, hydrogeological investigations, acid rock analysis	Geology and encapsulation techniques
Brian Speight, PE	Roadway Design Engineer, ARCADIS	Bachelor of Science in Civil Engineering; over 10 years of experience including roadway construction documents, traffic analysis, and traffic engineering studies	Functional designs
Ann Steedly, PE	Senior Planner, ARCADIS	Master of Business Administration, Bachelor of Science in Civil Engineering; over 8 years of experience in socioeconomic impact analysis, environmental assessment and NEPA compliance	DEIS management and review, community impacts, and cost estimates
Steve Thomas, PE	Transportation Business Practice Manager, ARCADIS	Master of Civil Engineering, Bachelor of Science in Civil Engineering; over 18 years of experience in roadway and bridge design, traffic operations analysis, environmental impact studies and assessments, and air and noise analysis	Contract oversight , quality assurance, and project management assistance

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Janice Warren	Environmental Planner, ARCADIS	Bachelor of Arts in Environmental Studies; over 4 years of experience in environmental assessment and NEPA compliance	Existing conditions research and writing for air quality and public projects; primary author for the Preliminary Alternatives Report; and DEIS primary author for Purpose and Need (Chapter 1), Parklands and Recreational Facilities, Hazardous Materials, Utilities, Public Health and Safety, Visitor Use and Experience
<b>Sammons/Dutton, LLC:</b> DEIS and Appendix F			
Ron Dutton	Principal, Sammons/Dutton, LLC	Bachelor of Science, Economics; Master of Science, Economics; over 28 years of experience in socioeconomic and regional economic analysis, including extensive NEPA analysis	Principal analyst for the economic impact analysis and author of the economic impact technical report
<b>TRC Garrow, Associates:</b> DEIS and Appendix G			
Paul Webb	Program Manager/ Senior Archaeologist, TRC Garrow Associates, Inc.	Bachelor of Arts in Anthropology, PhD candidate in Anthropology; over 29 years of experience in archaeology and cultural resource management	Managed cultural resource investigations; co-authored reports
C. Damon Jones	Archaeologist, TRC Garrow Associates, Inc.	Master of Arts in Archaeology and Historic Landscapes, Bachelor of Arts in Anthropology; over 9 years of experience in archaeology and cultural resource management	Directed archaeological survey and co-authored Section 106 report
<b>Independent Contractors</b>			
Don Byerly, PhD	Professor Emeritus, Geological Sciences Department, University of Tennessee	Doctorate in Geology, minor in Soils, Masters in Geology; over 43 years of experience teaching and consulting in the Geology field	Appendices I and L; Geology and encapsulation techniques
Harvey C. Bernard, PhD	Professor of Biology, Entomology and Plant Pathology Department, University of Tennessee	Doctorate in Biology; over 30 years of experience in the taxonomy and ecology of invertebrates	Attachment N-10; Terrestrial invertebrates surveys
Eric R. Britzke, PhD	Environmental Science Program Specialist, East Arkansas Community College	Doctorate in Environmental Sciences; over 10 years of experience in conservation biology of vertebrates. A leading expert in the eastern United States in bat acoustic	Attachment N-5; Bat survey

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W. Benjamin Cash, III, PhD	Assistant Professor of Biology, Maryville College	identification technology Doctorate in Biology; over 12 years of experience in research in behavioral ecology of reptiles and amphibians	Attachment N-7; Reptile surveys
Philip E. "Ted" Coyle, PhD	Associate Professor of Anthropology, Western Carolina University	Ph. D. in Anthropology; over 10 years of experience in the ethnography of Mexico, 4 years of experience in the ethnography of the Blue Ridge region.	Appendix G; North Shore Decoration Day ethnographic studies
Daniel Dourson	Unaffiliated; Independent Contractor	Associate Degree in Wildlife Biology; over 22 years of experience in field-oriented biological surveys	Attachment N-11; Terrestrial mollusca surveys and small mammal surveys
Kim Feeman	Unaffiliated; Independent Contractor	Master of Science in Biology/Botany; over 6 years of experience in field-oriented botanical research and surveys	Attachment N-14; Non-vascular plant surveys
Shay Garriock	Environmental Biologist, The Catena Group	Bachelor of Science in Wildlife Biology; over 10 years of experience conducting vertebrate and invertebrate surveys, plant community mapping, natural resource investigations, and wetland delineations	Attachment M-8; Amphibian, butterfly and dragonfly surveys
Mark W. Gumbert	Biologist, Copperhead Environmental Consulting	Master of Science in Biology; 10 years of experience in biological surveys, especially small mammals	Attachment N-6; Small-mammal surveys
Michael J. Harvey, PhD	Professor Emeritus/Adjunct Professor, Department of Biology, Tennessee Technological University	Doctorate in Biology; over 30 years experience in conservation biology and behavioral ecology of mammals, particularly endangered bats	Attachment N-5; Bat surveys
Mark D. Huncik	Meteorological Consultant	Bachelor of Science in Meteorology; over 15 years of experience providing air quality and meteorological services, including dispersion modeling, emissions inventory development, air quality impact analyses, emission source permitting, weather forecasting, and on-site training	Appendix K; Air-quality impact analysis from construction activities and future vehicular traffic
Alan Jabbour, PhD	Unaffiliated; former director (retired), American Folklife Center, Library of	Doctorate and Master of Arts in English Literature and Folklore; over 30 years of experience as manager of	Appendix G; Principal Investigator, North Shore Decoration Day ethnographic

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	Congress	cultural programs at federal cultural agencies (Head, Archive of Folk Song, Library of Congress; Director, Folk Arts Program, National Endowment for the Arts; Director, American Folklife Center, Library of Congress)	studies
R. Todd Jobe	PhD Student in Ecology, Department of Biology, University of North Carolina at Chapel Hill	Bachelor of Science in Biology, over 6 years of experience in GIS programming	Attachment N-13; Ecological Zipcode Mapping, rare species prediction maps
Wendell Pennington	President/Principal Scientist, Pennington and Associates, Inc.	Doctoral candidate (dissertation not completed), Master of Science in Biology, Bachelor of Science in Biology with a minor in Geology; over 19 years of experience related to the analyses of benthic aquatic organisms	Benthic macro-invertebrate identification
Allen C. Risk, PhD	Associate Professor of Biology, Morehead State University	Doctorate in Botany; over 15 years of experience in natural history and ecology of non-vascular plants	Verified field identifications of non-vascular plants collection by K. Feeman
Timothy Savidge	Environmental Supervisor, The Catena Group	Master of Science in Marine Biology; over 15 years of experience conducting natural resource investigations, including threatened and endangered species surveys; specializing in aquatic species (fish and freshwater mussels)	Attachment M-8; Fish and mussel surveys
J. Bolling Sullivan, PhD	Unaffiliated; Independent Contractor	Doctorate in Zoology; over 25 years of experience on the Duke School of Medicine faculty; current research appointments include the Smithsonian Institution, Washington, DC; the Carnegie Museum, Pittsburgh, PA; and the Florida Department of Agriculture, Gainesville, FL	Attachment N-9; Lepidopteran surveys
Kendrick Weeks	Project Scientist, EcoScience, Inc.	Master of Science in Zoology, Minor in Statistics, Bachelor of Science in Biology;	Bird surveys