

Nicholas C. Zander, Associate Economist

Veritas Economic Consulting

1851 Evans Road, Cary, NC 27513

PRACTICE AREAS

- Survey Research
- Natural Resource Economics
- 316(b) Compliance Evaluation

EXPERTISE

- Survey Administration
- Economic valuation support
- Economic modeling support

EDUCATION

B.S., Agricultural & Applied Economics and Environmental Science, The University of Wisconsin Madison, Madison, WI, 2018

RECENT PUBLICATIONS

- Northern Economics, Inc. *Economic Study of Subsistence Impacts*. Final Draft. Prepared for ConocoPhillips Alaska, Inc. March 2019.
- Electric Power Research Institute. 2019. *EPRI Program 182 Electricity Service Plan Market Size Model Software User Manual*. Principal Investigators: M.F. Bingham and J.S. Kinnell. Palo Alto, CA: Electric Power Research Institute.

Mr. Zander is an Associate Economist specializing in Veritas' efforts to collect, compile, validate, and analyze economic data on consumers market and non-market decisions. Mr. Zander has worked on projects that apply economic analysis in regulatory compliance, economic impact assessments, and natural resource damage assessments. Mr. Zander has supported the design, administration, and analysis of Veritas' surveys including managing the design, administration, and analysis of the Knowledge, Interests, Intent, and Perceptions Survey for Electricity Service Plans.

KEY PROJECTS

Managed the design, administration, and analysis of the 2018 Knowledge, Interests, Intent, and Perceptions Survey for Electricity Service Plans (EPRI 2018).

Supported the survey administration and analysis of the of the 2018 Electricity Service Plan Survey (Neenan et al. 2016; EPRI 2019).

Supported the estimation of Nested logit models to estimate customers preferences for alternative electricity service plans to support the development of the Veritas' Electricity Service Plan Market Size Simulation Model (Neenan et al. 2016; EPRI 2019).

Supported the design and analysis of the 2017 Nuiqsut Resident/Hunter Focus Group Survey Interviews (Northern Economics 2019).

Researched modern Alaskan subsistence cultural practices to support Veritas' development of recreational demand models to evaluate the potential impacts of oil field expansion to subsistence communities located on the north slope of Alaska (Northern Economics 2019).

Supported Veritas' development of Benefit Valuation Studies, Social Cost studies, and Benefit Cost Comparison and managed the peer review process for the relevant regulatory submittals for a multitude of site-specific 316(b) assessments at facilities throughout the United States.

Assisted in analyzing of commercial rafting participation in support of Veritas' development of recreational demand models to evaluate the potential impact of TVAs activities on the Ocoee River.

Researched the historical degradation of natural resources to develop proper estimates of baseline human-use and ecological services at a confidential site in Maine and Alabama.

Experience

Veritas Economic Consulting, Cary, NC
Associate Economist 2018 to present
Research Assistant 2017 to 2018

Environmental Economics Services, Cary, NC
Research Assistant 2017 to 2018

Project Experience

Survey Design and Administration

- Managed the design, administration, and analysis of the 2018 Knowledge, Interests, Intent, and Perceptions Survey for Electricity Service Plans.
- Supported the survey administration and analysis of the 2018 National Electricity Service Plan Survey (Neenan et al. 2016).
- Supported the design and analysis of the 2017 Nuiqsut Resident/Hunter Focus Group Survey Interviews.

Regulatory Compliance and Policy Analysis

- Supporting Veritas' efforts in evaluating the economic impacts of retrofitting existing power plants with closed-cycle cooling.
- Assisted in the valuation of a multitude of fisheries throughout the United States, including marine, estuary, lake, and river environments using state-of-the-art economic-valuation methods.
- Assisted in performing transfer-based fishery valuation assessments at a multitude of sites throughout the United States.

Natural Resource Damage Assessment and Restoration (NRDAR) and Exposure Assessment

- Researched the historical degradation of natural resources to develop proper estimates of baseline ecological health in multiple regions of the United States.

National Environmental Policy Act (NEPA)

- **Greater Mooses Tooth One Development Project (Nuiqsut, Alaska)**—Developed recreation demand models to evaluate the potential impacts of the Greater Mooses Tooth One Development Project on subsistence activities (Northern Economics 2019). The objective of this Economic Study of Subsistence Impacts is to better understand the economic impacts of development on subsistence uses. As part of the project effort, Veritas has developed and analyzed the 2017 Nuiqsut Resident/Hunter Focus Group Survey Interviews, a survey administered to Alaskan residents to collect information on their subsistence activities.

Software

- Assisted Veritas' efforts in the development of Electricity Service Plan Software User Manual (EPRI 2019)

Selected Reports

Electric Power Research Institute. 2019. *EPRI Program 182 Electricity Service Plan Market Size Model Software User Manual*. Principal Investigators: M.F. Bingham and J.S. Kinnell. Palo Alto, CA: Electric Power Research Institute.

Northern Economics, Inc. *Economic Study of Subsistence Impacts*. Final Draft. Prepared for ConocoPhillips Alaska, Inc. March 2019.

Veritas Economic Consulting. 2018. *Benefits Valuation Study: Alcoa Warrick Power Plant*. Prepared for Alcoa Corporation. Cary, NC: Veritas Economic Consulting.

Veritas Economic Consulting. 2017. "Appendix D—Evaluation of Economic Effects from Alternative Ocoee River Release Schedules." In [2018] *Ocoee River Whitewater Rafting Agreement: Final Environmental Assessment Polk County, Tennessee*. Project Number 2016-30. Knoxville, TX: Tennessee Valley Authority.