United States 2006 State
Stockholm Junior Water Prize Winners

Alabama
Omar Ahmed
“Ammonium and Nitrate Removal from Simulated Contaminated Water using Aerobic and Anaerobic Bacteria”
Florence High School
Florence, Alabama
Sponsored by the Alabama Water Environment Association

Alaska
Alec Jemison
“Hang 10 Alaska”
West Anchorage High
Anchorage, Alaska
Sponsored by the Alaska Water Wastewater Management Association

Arizona
Alissa Riggs
“Water Quality on the Navajo Nation”
Rough Rock Community School
Chinle, Arizona
Sponsored by the Arizona Water and Pollution Control Association

Arkansas
Rachel Meserole
“What’s in Your (Creek) Water? Are Bacteria Becoming More Resistant?”
Arkansas School for Mathematics, Sciences, and the Arts
Hot Springs, Arkansas
Sponsored by the Arkansas Water Environment Association

California
Swati Yamadala
“Sourcing and Quantification of Fecal Indicator Bacteria (FIB) in Aquatic Ecosystems: A Three Year Study”
Chadwick High School
City of Palos Verdes Estates, California
Sponsored by the California Water Environment Association

Colorado
Tyler Keck
“A Polymeric Treatment for Removal of Heavy Metal Contaminates from Water”
Monte Vista High School
Monte Vista, Colorado
Sponsored by the Rocky Mountain Water Environment Association
Connecticut
Maricate Conlon
"Impact of Chitin on Heavy Metal Contaminated Wastewater and Soil"
Newtown High School
Sandy Hook, Connecticut
Sponsored by the New England Water Environment Association &
Connecticut Water Pollution Abatement Association

Florida
Yun Li
"Impact of Water Reclamation: An Analysis of Water Quality and the Growth, Morphology, and
Propagation of Rapid-cycling Brassica rapa"
Stanton College Preparatory High School
Jacksonville, Florida
Sponsored by the Florida Water Environment Association

Georgia
Sherrie Hall
"Radionuclides in the Miocene Aquifers of Coastal Georgia Phase II"
Cedar Shoals High School
Athens, Georgia
Sponsored by the Georgia Water and Pollution Control Association

Hawaii
Shayna Yatsushiro
"A study of Dissolved Oxygen in Kaelepulu Pond"
Kailua High School
Kailua, Hawaii
Sponsored by the Hawaii Water Environment Association

Idaho
No Nominations
Sponsored by the Pacific Northwest Clean Water Association

Illinois
Eva Feldman
"The Effect of River Bank Conditions on Aquatic Ecosystems"
Lincoln Park High School
Chicago, Illinois
Sponsored by the Illinois Water Environment Association

Indiana
Neeta Kamat
"The Ecotoxicological Effects of Ionic Liquids on Aquatic Life"
John Adams High School
South Bend, Indiana
Sponsored by the Indiana Water Environment Association
Iowa
Shala Hawes and Haley Burgess
“The Levels of Nitrates and Phosphates in Freshwater Systems”
Central Lee High School
Donnellson, Iowa
Sponsored by the Iowa Water Pollution Control Association

Kansas
Sameer Surampalli
“Fate of Antibiotics in Anaerobic Swine Lagoons”
Shawnee Mission Northwest High School
Shawnee, Kansas
Sponsored by the Kansas Water Environment Association

Kentucky
Kyle Huningham & Reginald Bentley
“The Effect of Antibiotics on Aquatic Ecosystems”
duPont Manual High School
Louisville, Kentucky
Sponsored by the Kentucky-Tennessee Water Environment Association

Louisiana
Elizabeth Lopez
“Determination of the Capability to Use Pontederia Cordata To Monitor Trace Metal and Hydrocarbon Pollutants in Louisiana Wetlands To Aid in the Reduction of Coastal Erosion”
East Jefferson High School
Metairie, Louisiana
Sponsored by the Louisiana Water Environment Association

Maine
Chloe Shields
“A Trophic Study of Lake Environments and Soil Ecology”
Greely High School
Cumberland, Maine
Sponsored by the New England Water Environment Association & Maine Wastewater Control Association

Maryland
Emily Brownlee
“A Tale of Two Oysters - A Vital Management Issue for the Chesapeake Bay”
Calvert High School
Prince Frederick, Maryland
Sponsored by the Chesapeake Water Environment Association
Massachusetts
Amanda Duggan
"Bioremediation"
Upper Cape Cod Regional Technical School
Bourne, Massachusetts
Sponsored by the New England Water Environment Association &
Massachusetts Water Pollution Control Association

Minnesota
Robert Manduca
“There's Something in the Water: Nitrate Levels through the Seasons”
Century High School
Rochester, Minnesota
Sponsored by the Central States Water Environment Association

Mississippi
Heather Smith
“Imperiled Waterways - Conserving Sturgeon Fisheries During Dredging”
St. Andrew's Episcopal School
Ridgeland, Mississippi
Sponsored by the Mississippi Water Environment Association

Missouri
Amber Bryant
“Patching It Up: A Study of Estrogen Leaching into Water”
Tuscumbia High School
Tuscumbia, Missouri
Sponsored by the Missouri Water Environment Association

Montana
Emily Munday
“Mollusks in Decline: an ecological study of a rare freshwater mussel (Margaritifera falcata)”
Butte High School
Butte, Montana
Sponsored by the Montana Water Environment Association

Nebraska
Laura Johnson
"The Phytoremediation of Bio-Solids using Lemna minor and Populus deltoides x Populus nigra"
Newman Grove Public School
Newman Grove, Nebraska
Sponsored by the Nebraska Water Environment Association

Nevada
Lindsay Gilbertson
“Assessing Bioaccumulation of Waterborne Arsenic and Selenium in Plants from the Poaceae and Linaceae Families”
Elko High School
Elko, Nevada
Sponsored by the Nevada Water Environment Association
New Jersey
Michael Kreisel
“Quantitative Analysis of DEET and Triclosan in Local Tap Waters”
Woodbridge High
Woodbridge, New Jersey
Sponsored by the New Jersey Water Environment Association

New Mexico
Kendra Valdez
“Long Term Monitoring of the Rio San Jose Watershed”
Grants High School
Grants, New Mexico
Sponsored by the Rocky Mountain Water Environment Association

New York
Miguel Bustos
“Rescuing Our Natural Waters: Fighting Eutrophication Globally through the Electrical Attraction of Nitrate and Phosphate”
Uniondale High School
Uniondale, New York
Sponsored by the New York Water Environment Association

North Dakota
Drew Mac Donald
“The Effect Of Herbicide On Pond Organisms”
Valley High School
Hoople, North Dakota
Sponsored by the North Dakota Water Environment Association

Ohio
Stephanie Andrus
“What is the Effect of Phosphate Loading on the Algae Cladophora sp. in a Simulated Lake Erie Near Shore Environment Versus a Control? Phase II”
Beaumont School
Cleveland Heights, Ohio
Sponsored by the Ohio Water Environment Association

Oklahoma
Molly Steen
“Tributary Impact: Three Points of Interest. A field & laboratory study of Honey Creek and its tributary, Cave Springs Branch”
Grove High School
Grove, Oklahoma
Sponsored by the Oklahoma Water Environment Association
Oregon
Katie VanderWeele Snyder
“Removal of Arsenic From Drinking Water by Water Hyacinths (Eichhornia crassipes): Year II”
Oregon Episcopal School
Portland, Oregon
Sponsored by the Pacific Northwest Clean Water Association

Pennsylvania
Anastasia Roda
“Human Factor III: The Impact of a Boiling Water Nuclear Reactor On Its Intake and Discharge Creeks in a Semi-Eutrophic Estuary”
Lancaster Catholic High School
Lancaster, Pennsylvania
Sponsored by the Pennsylvania Water Environment Association

Puerto Rico
Sara Justiniano
“Pyrodinium and Peridinium bahamense used as biosensors of water pollution”
Southwestern Educational Society Society
Mayaguez, Puerto Rico
Sponsored by the Puerto Rico Water & Environment Association

South Carolina
Yupeng Liu
“Effects of Salinity on the Growth and Toxin Production of a Harmful Algal Species, Microcystis aeruginosa”
Academic Magnet High School
North Charleston, South Carolina
Sponsored by the Water Environment Association of South Carolina

Tennessee
Ashley Boaz
“Against the Barrier”
Notre Dame High School
Chattanooga, Tennessee
Sponsored by the Kentucky-Tennessee Water Environment Association

Texas
Alex Burger
“Phytoremediation of Heavy Metals as Water Contaminants”
Academy of Science & Technology
The Woodlands, Texas
Sponsored by the Water Environment Association of Texas

Utah
Shannon Babb
“Deadly Waters: A Twelve Month Water Quality Study of a Newly Erupted Sulfur Spring and its Longitudinal Effect on Diamond Fork Creek”
American Fork High School
American Fork, Utah
Sponsored by the Water Environment Association of Utah
**Vermont**
Cheng Cheng (Charles) Li
"Water Quality Index: Potash Brook vs. Brown's River"
South Burlington High School
South Burlington, Vermont
Sponsored by the New England Water Environment Association &
Green Mountain Water Environment Association

**Virginia**
Matthew Karrenbauer, Ryan Akrami & Daniel Saboe
"Fecal Matters II: An Exploration of the Filtering Capacity of Feces"
Centreville High School
Clifton, Virginia
Sponsored by the Virginia Water Environment Association

**Washington**
Morgen Anyan
"Immobilization and Recovery of Aquatic Metal Contaminants"
Selah High School
Selah, Washington
Sponsored by the Pacific Northwest Clean Water Association

**West Virginia**
Kelydra Welcker
"Quantification, Removal and Recovery of APFO from Contaminated Drinking Water With a
Concomitant Endocrinological and Epidemiological Assessment"
Parkersburg South High School
Parkersburg, West Virginia
Sponsored by the West Virginia Water Environment Association

**Wisconsin**
Megan O'Brien
"Zebra Mussels vs Quagga Mussels: The survival in oxygen deficient conditions"
Divine Savior
Milwaukee, Wisconsin
Sponsored by the Central States Water Environment Association

**Wyoming**
Tucker Hamilton
"The Effect of Pressure on Water Freezing"
Newcastle High School
Newcastle, Wyoming
Sponsored by the Rocky Mountain Water Environment Association