

# Jodie Murray Burns, MEd, MS

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## SUMMARY OF QUALIFICATIONS

- Experienced in wetlands delineation, wetlands permitting (federal, state, local), and design of wetlands mitigation projects.
- Educated in the use of stream biotic indices, water quality assessments, and stream bioassessments.
- Knowledgeable in designing stream restoration/enhancement projects.
- Excels in complex project management of environmentally-challenged development projects.
- Skilled in MS Office Suite, ArcGIS, and GPS data collection.
- Excellent communication skills, honest advice, and persistent determination to attain project completion.

## EDUCATION

### **M.S. in Biological Sciences**

May 2002

University of Arkansas, Fayetteville, AR

Area of Research: Stream Ecology

Thesis Topic: Changes in Watershed Land Use, Geomorphology, and Macroinvertebrates of a Northwest Arkansas Stream Over 50 Years

### **M.Ed. In School Supervision**

May 1993

Abilene Christian University, Abilene, TX

### **B.S. in Biology with Chemistry minor**

May 1988

Harding University, Searcy, AR

## EXPERIENCE

Cattails Environmental, LLC

May 2015-present

*Principal/Senior Scientist*

- Specializing in wetlands delineations and environmental permitting issues.
- Performing mammal and vegetation surveys to assist in evaluating endangered species habitat.
- Experienced in performing American Burying Beetle presence/absence surveys.
- Proficient in writing successful Environmental Assessments to meet federal and state environmental regulations.

Smith Environmental and Research Consulting House, LLC (S.E.A.R.C.H., LLC)

Jan 2014-April 2015

*Environmental Consultant*

- Lead scientist in wetlands-related consulting work.
- Assisted others in performing mammal, bird, vegetation, and American Burying Beetle surveys.
- Completed writing thorough Environmental Assessment with project team members.

EGIS Consulting, Inc., Bentonville, AR

June 1993-Jan 1997

*Environmental Consultant*

- Delineated wetlands in KY, TX, AR, LA, TN, and UT according to the *1987 Wetlands Delineation Manual*.
- Coordinated state and federal environmental permits relating to impacts of wetlands and other waters of the U.S.
- Reviewed and designed wetlands mitigation projects in TX, KY, AR, MS, and TN.

- Participated on a Natural Resource Planning Team for various projects in TX and AL.
- Co-project manager responsible for coordinating endangered species survey and pre-impact stream habitat documentation on a proposed 70+ mile-long water pipeline in Northwest Arkansas.
- Designed and/or reviewed water quality monitoring studies for developments in AR, IN, TN, and TX.
- Performed stream bioassessments and designed stream mitigation projects for development impacts (stream enhancements).

## PERMITS

- Listed on Dr. Amy Smith, S.E.A.R.C.H, LLC's **USFWS Federal permit #TE97824A-0**, Expires 5/31/2018, for working with the American burying beetle
- **State of Oklahoma** scientific collector's permit (American Burying Beetle, aquatic macroinvertebrates, fish and wildlife), License #7181, Annually expires on 12/31/18.
- **State of Arkansas** scientific collector's permit (crayfish, fish, mollusks, other aquatic inverts, & terrestrial inverts), Permit # 040720171, Expires on 4/24/2018 (re-applying in March 2018)
- **State of Kansas** scientific collector's permit; listed as a sub-permittee on Dr. Amy Smith's permit in 2015. Will apply for own individual permit, as work needs warrant.

## RECENT TRAINING AND CONFERENCES

- Missouri Natural Resources Conference, Osage Beach, MO. Jan. 31- Feb. 2, 2018.
- Completed **two** 3-hour credit Northwest Arkansas Community College, Construction Management Program courses, Surveying and Estimating, Fall 2017.
- Society of Wetland Scientists Central Chapter, Laclede, MO, October 11-13, 2017.
- Ball State University, Biebighauser Stream-lined Wetland Construction Course with a focus on creating habitat for amphibians, Muncie, IN, October 7-8, 2017.
- Arkansas Natural Resources Commission NonPoint Source Pollution Stakeholder & Project Review Meeting, Little Rock, AR, September 27-28, 2017.
- Remotely attended the Association of State Wetland Managers' Using Sound Science & Effective Communication to Strengthen Wetland Conservation, Restoration & Management, Shepherdstown, WV, April 11-13, 2017.
- Missouri Natural Resources Conference, Osage Beach, MO. February 1-3, 2017.
- Blue Pathways: Digging Deeper Into Low Impact Development (LID), Fayetteville, AR. January 2017.
- Gulf Estuarine Research Society-Society of Wetland Scientists (South Central and South Atlantic Chapters) Fall Meeting, Pensacola, FL. November 3-5, 2016.
- Arkansas Watershed Conference, A Fluid Mosaic: The Big Picture of Watersheds, Eureka Springs, AR. October 27-28, 2016.
- Attended Society of Wetland Scientists - Central Chapter Fall Meeting, Gray Summit, MO. September 29-30, 2016.
- Remotely attended the Association of State Wetland Managers' Managing Change – Wetland Protection and Restoration in an Era of Changing Water & Energy Demands. National Conservation Training Center, Shepherdstown, WV. March 2016.
- Attended the Oklahoma Academy of Science, 104<sup>th</sup> Annual Technical meeting and Effects of Climate Change: Past, Present, Future Symposium. Oklahoma City, OK. November 2015.
- Completed a Northwest Arkansas Community College 3-hour GIS course and 1-hour Independent Study GIS course, Spring and Fall 2015.
- Attended Society of Wetland Scientists, South Central Chapter meeting, October 2015. Memphis, TN.

- Attended a half-day SWS, South Central Chapter, Clean Water Rule workshop presented by SWCA, Houston, TX. October 2015. Memphis, TN.
- Attended a full-day SWS, Central Chapter, Plant Identification Class, October 2015, Presented by the Wetland Training Institute. Marshall, MO.
- Attended Society of Wetland Scientists (SWS), Central Chapter meeting, October 2014 & 2015.
- Received updated wetlands delineation and permitting training from the Richard Chinn Wetlands courses in Kansas City, MO, October 2014.

## **SAMPLE OF SCIENTIFIC COMMUNICATIONS**

Wildcat Glades Conservation & Audubon Center, Joplin, MO. March 15, 2017. Presented preliminary findings of a 50+ mile survey of Shoal Creek, Newton County, MO, at The Nature Conservancy's Western Ozark Waters Initiative forum. Attendees were conservation partners and key watershed stakeholders.

Society of Wetland Scientists – Central Chapter Meeting, Gray Summit, MO. September 30, 2016. The Flint Michigan Water Crisis: A Case Study of Clean Water Failure. Presentation to attending chapter members.

Harding University. Searcy, AR. September 9, 2016. Environmental Consulting Career Awareness Seminar. Presentation for Biology Department Seminar.

Northwest Arkansas Community College, Rogers, AR. April 2016. The Clean Water Act & Its Controversies: The Challenges to Keeping Our Nation's Water Clean. Earth Day lecture to student body.

CEI Engineering Associates, Inc. Bentonville, AR. Jan 2016. Wetlands: The Clean Water Rule, Details & Legal Status. Seminar to engineering staff located in 5 different states.

Oklahoma Academy of Science, 104<sup>th</sup> Annual Technical meeting, Oklahoma City, OK. November 13, 2015. Development of an Interactive On-Line GIS Map of a 1995 Oklahoma Academy of Science Geology Field Trip in Northeast Oklahoma. Presentation to Geography Section.

Smith A., **Burns J.M.**, and Burba E. (coauthors). January 27, 2015. Draft Environmental Assessment of the Proposed Hulbert, Oklahoma, Water Treatment Plant Improvements. Prepared by S.E.A.R.C.H. LLC, Siloam Springs, AR. 228 pages. (Technical Report)

**Burns, Jodie Janeen Murray.** Dec 2001. Thesis: Changes in Watershed Land Use, Geomorphology, and Macroinvertebrate Assemblages in Clear Creek, Northwest Arkansas, From 1948 To 1999. University of Arkansas.

North America Benthological Society, Annual Meeting, Keystone, CO. May 31, 2000. Changes in Macroinvertebrates and Watershed Land Use of a Northwest Arkansas Stream Over 50 Years. Thesis presentation to attending society members.

CEI Engineering Associates, Inc. Bentonville, AR. Dec 1997. Recent Changes in Wetland Regulations. Seminar to engineering staff.

Bank of Bentonville. Bentonville, AR. April 30, 1996. Environmental Issues of the Present Day. Presentation to loan officers and other interested bank employees.

**Burns, Jodie Murray,** and J. M. Barnes, 1995. Environmental Assessment. Proposed Retail Development, West Lafayette, Indiana. Details mammal survey, bird sightings, plant inventory, wetlands, and cultural resources. 26+ pages. (Technical Report)

CEI Engineering Associates, Inc. March 9, 1995. Wetland Regulations. Seminar to engineering staff.

American Society of Civil Engineers, Little Rock, AR, Chapter. February 15, 1995. Balancing Conservation and Development. Seminar presented to active society members.

**Burns, Jodie Murray,** J.M. Barnes, and D. Mastrostefano. 1994 Stream Enhancement/Mitigation Project for Kentucky Water Quality Certification, Middlesboro, KY. 19+ pages. (Technical Report)

**Burns, Jodie Murray.** June 21, 1994. Mitigation Plan for A.B. Shopping Center Properties, Inc., Lebanon, TN. Sheets 1-3. (Technical Report & Drawings)

**Burns, Jodie Murray.** 1994. Preliminary Wetland Assessment and Needs/Alternative Analysis, Proposed Retail Development, Galliano, LA. 26+ pages. (Technical Report)

Society of Wetland Scientists, South Central Chapter Meeting, Dallas, TX. November 1994. Stream Enhancement/Mitigation Project, Middlesboro, KY. Paper presented to attending chapter members.

## **VOLUNTEER ACTIVITIES AND CAUSES:**

Society of Wetland Scientists	2014-pres.
South Central Chapter's <i>Arkansas Education &amp; Outreach Coordinator</i>	2017-pres.
<ul style="list-style-type: none"><li>• A volunteer position whose mission is to increase awareness of SWS-SCC, recruit members, and coordinate education opportunities for both SWS members and non-members of the public, along with raising chapter funds.</li></ul>	
South Central Chapter's <i>Board Member</i>	2017-2019
Society of Freshwater Science, South-Central U.S. Chapter member	2017-pres.
Women for Harding University, Northwest Arkansas Chapter member	2003-pres.
<ul style="list-style-type: none"><li>• <i>Women for Harding National Council President</i></li></ul>	2016-2018
<ul style="list-style-type: none"><li>• A non-profit organization whose primary purpose is to raise money for Harding University (Searcy, AR) scholarships.</li></ul>	
Carver Birthplace Association (CBA), Diamond, MO, Board Member	1994-pres.
<ul style="list-style-type: none"><li>• Associated with the George Washington Carver National Monument, CBA is a non-profit organization whose mission is to promote the legacy of Dr. George Washington Carver and assist the GWCNM.</li><li>• Currently in the process of raising money for the development and restoration of Carver's boyhood schoolhouse (cir. 1872) in Neosho, MO.</li></ul>	