



# Blackbird Environmental, LLC

**Mr. Clint Michael Porter, MES, PWS, FP-A  
Project Manager; Biologist; Wetland Specialist**

## **EDUCATION**

**University of Oklahoma** **2002-2004**  
**(Master of Environmental Science)**

*Thesis Title:* Impacts of treated and untreated coal mine drainage on biological organization and the evaluation of ecosystem functions in a constructed treatment wetland

**Oklahoma State University** **1997-2001**  
**(Bachelor of Science in Zoology)**

*Lew Wentz Research Project:* Treated municipal sewage discharge affects multiple levels of biological organization in fishes

## **PROFESSIONAL EXPERIENCE**

**May 1998 - August 1999:** **Oklahoma County Blue Thumb  
(Water Quality Specialist)**

**May 2000 – Sept. 2000:** **Oklahoma Conservation Commission Water Quality Division  
(Water Quality Specialist)**

**June 2001 - August 2001:** **Oklahoma Department of Environmental Quality  
(Water Quality Specialist)**

**February 2002 – August 2002:** **Oklahoma County Conservation District  
(District Manager)**

**August 2002 – May 2004:** **University of Oklahoma Ecosystem Biogeochemistry and Ecology  
Laboratory  
(Research Assistant and Laboratory Assistant)**

**May 2004 – August 2008:** **Enercon Services, Inc.  
(Oklahoma City Natural Resource Lead; Project Manager; Biologist)**

**August 2008 – June 2009:** **Rose State College  
(Visiting Professor of Environmental Science)**

**August 2009 – May 2012:** **Rose State College  
(Adjunct Science Professor)**

**August 2008 – Present:** **Blackbird Environmental, LLC  
(Project Manager; Biologist; Wetland Specialist)**

## PERMITS

United States Department of the Interior, Fish and Wildlife Service; Endangered Species Act, Section 10 Research and Recovery for *Nicrophorus americanus*. **Permit # TE198057-0 (2009 to Present)**

## CERTIFICATIONS AND TRAININGS

Society of Wetland Scientists; Professional Wetland Scientist (PWS); **Number: 2895**  
American Fisheries Society; Associate Fisheries Professional (FP-A)

- Wetland Plant Identification: *Wetland Training Institute* (November 9 to 12, 2004)
- Stream and Riparian Corridor Restoration Workshop: *USACE* (April 8 to 10, 2008)
- Riparian Workshop: *Texas Christian University* (October 16 to 17, 2012)
- Wetland Delineation: *Wetland Training Institute* (June 8 to 11, 2015)
- Bat Acoustic Training: *Wildlife Acoustics* (January 28 to 29, 2019)
- Acoustic Management Class: *Bat Survey Solutions* (April 26 to 28, 2019)

## PUBLICATIONS

- Porter, C.M., D.R. Butler, D.M. Janz. 2000. Central Oklahoma bioassessment study: Evaluation of stream health by using fish and macroinvertebrates as biological indicators. *Proc. Okla. Acad. Sci.* 80: 61-70.
- Porter, C.M., D.M. Janz. 2003. Treated municipal sewage discharge affects multiple levels of biological organization in fishes. *Ecotox. Env. Safety.* 54: 199-206.
- Porter, C.M. 2004. Impacts of treated and untreated coal mine drainage on biological organization and the evaluation of ecosystem functions in a constructed treatment wetland. Master Thesis. University of Oklahoma. 270pp.
- Porter, C.M., R. W. Nairn. 2008. Ecosystem functions within a mine drainage passive treatment system. *Ecol. Eng.* 32: 337-346.
- Porter, C.M., R.W. Nairn. 2010. Fluidized bed ash and passive treatment reduce the adverse effects of acid mine drainage on aquatic organisms. *Science of the Total Environment.* 408: 5445-5451.
- Porter, C.M., R.W. Nairn. Fluidized bed ash reduces toxicity of acid mine drainage (*In Review*).

## CONFERENCE PROCEEDINGS

- Porter, C.M., Huey, G. Gathering Bioassessment Data. USEPA Region 6 Volunteer Monitor Conference (Willis, OK) March 24-26, 1999.
- Porter, C.M., Janz, D.M. Treated Municipal Sewage Discharge Affects Multiple Levels of Biological Organization in Fishes. Ozark Prairie Regional Meeting of the Society of Environmental Toxicology and Chemistry (Stillwater, OK) May 18-20, 2001. (Best Student Poster)
- Porter, C.M., Janz, D.M. Treated Municipal Sewage Discharge Affects Multiple Levels of Biological Organization in Fishes. The Proceedings of the 22nd Annual Meeting of the Society of Environmental Toxicology and Chemistry (Baltimore, MD) November 11-15, 2001.
- Porter, C.M., Nairn, R.W. Ecosystem Functions of a Constructed Treatment Wetland in Eastern Oklahoma. The South-Central Chapter Meeting of the Society of Wetland Scientists (Willis, OK) October 15-18, 2003. (Best Student Paper Presentation)

- Porter, C.M., Nairn, R.W. Impacts of Remediated Acid Mine Drainage on Biological Systems within a Reducing and Alkalinity Producing Treatment Wetland. The Proceedings of the 21st Annual Meeting of the American Society of Surface Mining and Reclamation (Morgantown, WV) April 18-23, 2004.
- Porter, C.M., Nairn, R.W. Acid Mine Drainage and Coal Combustion Products Affect Corbicula fluminea and Gambusia affinis. The Proceedings of the 21st Annual Meeting of the American Society of Surface Mining and Reclamation (Morgantown, WV) April 18-23, 2004.
- Nairn, R.W., Porter, C.M., Canty, G. A. Water Quality Changes in a Combined Alkaline Injection Technology-Reducing and Alkalinity Producing System (AIT-RAPS). The Proceedings of the 21st Annual Meeting of the American Society of Surface Mining and Reclamation (Morgantown, WV) April 18-23, 2004.
- Porter, C.M., Nairn, R.W. Ecosystem functions of a mine drainage treatment wetland. The 25th Annual Meeting of the Society of Wetland Scientists (Seattle, WA) July 18-23, 2004.
- Porter, C.M., Nairn, R.W. Impacts of remediated acid mine drainage on biological systems in a treatment wetland. The 25th Annual Meeting of the Society of Wetland Scientists (Seattle, WA) July 18-23, 2004.
- Nairn, R.W., Porter, C.M. Can mine drainage treatment wetlands do more than improve water quality? The 4th Annual Meeting of the American Ecological Engineering Society (Fayetteville, AR) June 9-12, 2004.
- Porter, C.M. Regional variance in site selection for land disturbing activities in Oklahoma. The Proceedings of the 31<sup>st</sup> Annual Meeting of the American Society of Surface Mining and Reclamation (Oklahoma City, OK) June 14-20, 2014.