

## WV Approved Freshwater Mussel Surveyors \*

<p>Heidi Dunn, Patty Morrison, Kristin Stockton EcoAnalysts, Inc. 1417 Hoff Industrial Drive O'Fallon, MO 63366 phone: 636-281-1982 email: hdunn@ecoanalysts.com</p>	<p>David Foltz Edge Engineering and Science PO Box 81 Bridgeport WV 26330 phone: 832-772-3000 direct phone: 304-479-3268 email: dafoltz@edge-es.com</p>
<p>Marty Huehner, Philip Mathias, Becca Winterringer, Emily Grossman, Matt Gilkay EnviroScience, Inc. 5070 Stow Road Stow, OH 44224 phone: 330-688-0111 email: bwinterringer@enviroscienceinc.com</p>	<p>Adam Benschhoff, Daniel Symonds, Casey Swecker, John Spaeth, Aaron Prewitt, Alyssa Jones Edge Engineering and Science 5800 Horning Road Kent, OH 44240 phone: 832-772-3000 direct phone: 330-931-1832 email: akbenschhoff@edge-es.com email: cdswecker@edge-es.com</p>
<p>Brian Carlson EnviroScience, Inc. 129 Greenbag Rd. Morgantown, WV 26501 Phone: 304-282-4292 Email: bcarlson@enviroscienceinc.com</p>	<p>Mitchell Kriege Edge Engineering and Science 312 Erlanger Road Erlanger, KY 41018 phone: 832-772-3000 direct phone: 859-630-7389 email: mdkriege@edge-es.com</p>
<p>Brandon Yates, Beth Hollinden Environmental Solutions &amp; Innovations, Inc. 4525 Este Avenue Cincinnati, OH 45232 Phone: 513-451-1777 Email: aquatics@envsi.com</p>	<p>Michael Davison Civil &amp; Environmental Consultants, Inc. 700 Cherrington Parkway Moon Township, PA 15108 phone: 412-429-2324 ext. 1160 800-365-2324 email: mdavison@cecinc.com</p>
<p>David Ford Edge Engineering and Science 16285 Park 10 Suite 400 Houston, TX 77084 phone: 832-772-3000 direct phone: 903-330-9809 email: dfford@edge-es.com</p>	<p>Gerald Dinkins Dinkins Biological Consulting. LLC PO Box 1851 3720 West Beaver Creek Drive Powell, TN 37849 phone: 865-938-7739 fax: 865-938-5081 email: biodink@frontiernet.net</p>
<p>Doug Locy Aquatic Systems, Inc. 4621 Baptist Road Pittsburgh, PA 15227 phone: 412-427-2758 email: aquatic.systems@comcast.net</p>	<p>Chad Lewis, Clarissa Lawlis Lewis Environmental Consulting, LLC 223 Rocky Lane Farmington, KY 42040 phone: 270-489-6711 cell: 270-227-6935 email: lewis_environmental@yahoo.com</p>
<p>Lindsey (Moss) Jakovljevic CT Consultants, Inc Mentor, Ohio phone: 440-477-1503 email: LJakovljevic@ctconsultants.com</p>	<p>Ryan Schwegman BioSurvey Group, LLC PO Box 61 Oxford, OH 45056 (513) 839-0123 Ryan@BioSurveyGroup.com</p>

<p>Sarah Veselka  BioSurvey Group, LLC  PO Box 593  Morgantown, WV 26507 (304) 282-9493  Sarah@BioSurveyGroup.com</p>	<p>Tony Tredway, Greg Myers (Group 1&amp;3)  TRC Consulting, Engineering, Construction Management  135 Corporate Center Drive, Suite 540  Scott Depot, WV 25560  Phone: 304-346-2599  Email: TTredway@trccompanies.com</p>
<p>Charlie Morgan (Ohio Watershed Only)  Mainstream Commercial Divers, INC.  322 C.C. Lowry Drive  Murray, KY 42071  phone: 270-753-9654  fax: 270-753-0165  email: charlie@mainstreamdivers.com</p>	<p>Dr. Michael Hoggarth  Otterbein University  Dept. of Biology and Earth Science  Westerville, OH 43081  phone: 614-823-1667  cell: 614-374-7724  email: mhoggarth@otterbein.edu</p>
<p>Steve Johnson  SWCA Environmental Consultants  15 Research Drive  Amherst, MA 01002  phone: 413-256-0202  cell: 413-323-5748  email: stevejohnson@swca.com</p>	<p>James Kiser, Cody Fleece  Stantec Consulting Services, Inc.  10509 Timberwood Circle, Suite 100  Louisville, KY 40223  phone: 502-396-3199  email: james.kiser@stantec.com</p>
<p>Tyler Black, Gordon Marsh  RK&amp;K  8601 Six Forks Road  Forum 1, Suite 700  Raleigh, NC 27615  phone: 919.878.9560  cell: 919.777.3327   910.547.3906  tblack@rkk.com   gmarsh@rkk.com</p>	<p>Price Sewell, Taylor Fagin  Copperhead Environmental Consulting, Inc.  741 Main Street  P.O. Box 73  Paint Lick, KY 40461  phone: 859-925-9012  email: psewell@copperheadconsulting.com</p>
<p>Tom Fox  Dewberry  2610 Wycliff Road, Suite 410  Raleigh, NC 27607  Phone: 202-253-6384  Email: tfox@dewberry.com</p>	<p>Clayton Lilly, Eli Shleser  Allstar Ecology LLC  1582 Meadowdale Rd.  Fairmont, WV 26554  Phone: 304-816-3490  Email: clayton@allstarecology.com ,  eli@allstarecology.com</p>
<p>Jeff Gordon  Ecologist / Malacologist  Lawhon &amp; Associates, Inc.  office: 614-481-8600 Ext.163  fax: 614-481-8610  cell: 614-593-1530  email: jgordon@lawhon-assoc.com</p>	<p>Joseph C. Snavelly  Normandeau Associated, Inc.  400 Old Reading Pike, Building A, Suite 101  Stowe, PA 19464  phone: 484-945-2631  cell: 267-644-8928  email: jsnavelly@normandeau.com</p>
<p>Robert Oney (Group 1&amp;3 Only)  Jackson Group  3945 Simpson Lane  Richmond, KY 40475  phone: 859-200-6061  email: roney@jacksongroupco.com</p>	<p>Kyle Sullivan  Bio-West, Inc.  1812 Central Commerce Court  Round Rock, Texas 78664-8546  phone: 512-392-6548  cell: 203-247-8976  email: ksullivan@bio-west.com</p>
<p>Travis Brown (Group 1 Only)  Western Ecosystems Technology, Inc.  408 West Sixth Street  Bloomington, Indiana 47404  (812) 339-1756 ext. 4 (office)  (812) 272-2054 (mobile)  tbrown@west-inc.com</p>	<p>Evan Markowitz (Group 1&amp;3 Only)  Burns &amp; McDonnell  1431 Opus Place, Suite 400  Downers Grove, IL 60515  phone: 630-724-3299  cell: 312-215-3030  email: ejmarkowitz@burnsmcd.com</p>

<p>William A. Tolin (Group 1 Only)  4528 Georgetown Rd  Elkins, WV 26241  phone: 304-636-6004  email: tolinwilliam9@gmail.com</p>	<p>Triston Mullins (Group 1 Only)  Eco-Tech Consultants, Inc.  311 Clark Station Road, Suite 101  Fishersville, KY 40023  (502) 259-0454 Main  (606) 923-1093 Mobile  tmullins@ecotechinc.com</p>
---	---

\* This list includes *individuals* who are certified to conduct surveys for freshwater mussels, this list may not include all individuals qualified to conduct such surveys. Inclusion of names on this list does not constitute endorsement by the WV Division of Natural Resources (WVDNR), the US Fish and Wildlife Service, nor any other government agency. **A WV Scientific Collecting Permit is required from the WVDNR to sample mussels in WV.**

Other contractors may be used but must be approved. See qualifications below.

**WV Certified Mussel Surveyor:** All mussels are protected in the State of West Virginia thus any construction activities such as construction of pipeline crossings on mussel streams first require a mussel survey. Only approved surveyors will be permitted to conduct/contract mussel surveys in WV. Approval is a two part process. Once approved the surveyor must meet specific standards to maintain certification. This criteria is established for those conducting surveys for environmental review purposes.

Identification testing is required through the WVDNR.

- Approved for endangered species streams (Groups 2 and 4): overall score of 85% and score of 100% on the endangered species.
- Non-endangered mussel streams (Groups 1 and 3): overall score of 85%.
- The test is closed book and closed shell (simulating live condition).
- Must possess adequate experience and submit references.
  - Endangered species streams (Groups 2 and 4): at least 3 years of field experience conducting surveys similar to the WV Mussel Survey Protocols (must have conducted at least 10 Group 2 surveys, and must have completed at least 10 Group 4 surveys within the previous 5 years) and submit two acceptable letters of reference.
  - Non-endangered species streams (Groups 1 and 3): at least 3 years of field experience conducting surveys similar to the WV Mussel Survey Protocols, completed at least 10 Group 1 and 10 Group 3 surveys within the previous 5 years and submit two acceptable letters of reference.
  - Within resume please provide description of what tasks you personally undertook for each project such as survey design, laid out survey grid, supervised staff components, surveyor, etc.
- To maintain certification the surveyor must:
  - Provide documentation that the surveyor is maintaining familiarity with WV's federally listed species through training or fieldwork. Minimum requirements based on a running two year average: Must handle 5 individuals (5 each of males and females if applicable) of each species per year in the field; or 0.5 hours per species in a museum or reference collection. Specimens can be from outside WV.
  - Provide training hours, date, and location of reference collection with approximate number of each federally listed species, by sex, handled each year.
    - If reference collection is not a recognized museum such as Ohio State University, Carnegie, etc. then the collection must have prior approval from the State Mussel Program leader.
  - Provide approximate number of each federally listed species, by sex, handled each year in the field.
  - Provide a yearly tally of number of surveys conducted by Stream Group. These may include surveys in other states and placed into equivalent Stream Group.
  - Reporting (spreadsheet available on website) is due February 15 for the previous calendar year's efforts.