

## **Kristine W. Wilson**

1594 West Temple, Suite 2110  
Salt Lake City, Utah 84114

**CAREER OBJECTIVES:** Native Aquatic Program Coordinator

### **EDUCATION**

1996 MS - Zoology

Brigham Young University, Provo, Utah

Thesis: Habitat characteristics of leatherside chub (*Gila copei*) at two spatial scales.

Magna cum laude

1994 BS - Environmental Resource Management

Arizona State University, Tempe, Arizona

Magna cum laude

1981 AS - Business Management

Utah Valley State College, Orem, Utah

Summa cum laude

### **EXPERIENCE**

*2005 – present*

Native Aquatic Species Program Coordinator: Administer a statewide program to evaluate and assess the status of native fish, amphibians, reptiles and mollusks.

*1998 – 2005*

Native Aquatic Species Biologist Central Region: Develop, direct, and execute scientific activities (i.e. applied research, biological monitoring, surveys, and recovery programs). Proficient in writing technical and scientific reports, proposals, and grants. Supervise employees and evaluate employee performance annually. Supervise regional activities involved with recovery of T&E and State Sensitive species ensuring that all projects comply with appropriate scientific methods and State Policy. Make recommendations to regional program manager and Program Coordinator and coordinate activities with other resource and Federal agencies. Participate on June sucker, Columbia spotted frog, least chub, boreal toad, and leatherside chub technical teams.

Administer budget and personnel activities for three separate budgets: native fish, reptiles and amphibians, and June sucker. Assist with development and monitoring of contracts and budgets, manage purchase of equipment, and track project expenses. Over a seven-year period the Native Aquatic budget increased from \$76,000 in 1998 to \$700,000 in 2005. I supervised two seasonal employees in 1998. By 2005 my crew had expanded to four AJ year-round positions (two WBII, two Tech II) and 23 seasonal employees.

## **ANNUAL FIELD ACTIVITIES**

- Monitor adult June and Utah sucker populations in Utah Lake and tributaries.
- Conduct June sucker broodstock development through collection of gametes and larvae from the Provo River.
- Monitor June sucker refuge population in Red Butte Reservoir.
- Conduct transfer of June sucker from refuge populations.
- Prepare Scope's of Work for proposed annual monitoring and research projects for June sucker Recovery Program.
- Monitor least chub populations and habitat at Mona and Mills Valley. Cooperatively monitor least chub populations in West Desert with Southern Region Native crew.
- Collect least chub from local populations for transplant and augmentation into refuge populations.
- Monitor spotted frog populations and habitat along the Wasatch Front and in the West Desert.
- Monitor the effects of chytrid fungus on spotted frog population in the Heber Valley.
- Monitor leatherside chub populations.
- Monitor boreal toad populations.
- Conduct surveys for spotted frog, least chub, and boreal toad to locate new populations.
- Participate in all activities associated with June sucker, spotted frog, and least chub technical teams. Attend regular team meetings.
- Prepare proposals for least chub, spotted frog, leatherside chub, and boreal toad activities for technical teams and Endangered Species Mitigation Fund.
- Develop and foster relationships with landowners who have sensitive species on their property.
- Negotiate Conservation Easements with landowners and Steve Hansen, Conservation Easement Specialist.
- Continue negotiations with Victory Ranch developers to finalize Conservation Easement initiated in 2001.
- Develop and foster relationships with landowners who have suitable least chub and spotted frog habitat for potential refuge and range expansion introduction sites.
- Participate with Habitat Section, NRCS and local landowners in Landowner Workshops. My role is to educate landowners about sensitive species conservation and how we can partner to protect and recover species to prevent listing under ESA.
- Maintain CRO native aquatic database.

## **ACCOMPLISHMENTS AS REGIONAL BIOLOGIST**

- 2005-present: Incentive Award Committee Chairman
- 2005- present: Desert Fishes Council Area Coordinator for Bonneville Basin
- 2004-2005: Incentive Award Committee Member
- 2005: Completed UDWR regulatory process (County Commissioners, RDCC, RAC and Wildlife Board approval) for introduction of least chub into Utah, Juab and

Tooele Counties.

- 2004: Completed UDWR regulatory process (County Commissioners, RDCC, RAC and Wildlife Board approval) for introduction of spotted frog in Swaner Nature Preserve, Park City, Utah.
- 2004: Finalized Conservation Easement for spotted frog in Sanpete County (\$360,000/163 acres)
- Wilson, K. W. and M. Slater. 2005. Baseline inventory documentation for Conservation Easements: Review and Recommendations. Non-required project for Certified Public Manager Course II. Prepared for Bill James, Habitat Chief to assist with standardizing UDWR requirements and procedures for obtaining baseline inventories for Conservation Easements.
- Found two, previously unknown, populations of spotted frog in Diamond Fork and Vernon.
- Conducted range expansion by introducing spotted frog into the Swaner Nature Preserve, Park City, Utah.
- Wasatch Front spotted frog status review finding by USFWS: not warranted due to actions implemented under the Spotted Frog Conservation Agreement and Strategy.
- Designed and conducted habitat enhancement project for spotted frog and least chub at Burraston WMA (Mona Springs).
- Implemented spotted frog habitat enhancement project at Miller Springs, Partoun, Utah. Project was outlined in a Cooperative Agreement with USFWS and landowner. Installed two cross fences, fence around large springhead, and dredged springhead on 188-acre parcel. Over 50 dedicated hunters assisted.
- Developed and implemented "headstarting" projects for Wasatch Front spotted frog.

### **COMPETITIVE GRANTS**

- \$50,000 from Fish Wildlife Service, Partners Group to conduct surveys for spotted frog.
- \$80,000 from USGS "Species at Risk" program to spotted frog research in the Heber Valley.
- \$26,000 from Bureau of Reclamation to conduct spotted frog headstarting project.
- \$9,257 from NRCS to conduct surveys for spotted frog and least chub in the Ibapah Valley and on the Goshute Tribal Lands in Ibapah.

*January 1997 - October 1998*

Native Aquatic Species Biologist/Salt Lake office: Assisted the Aquatic Native Species Program Coordinator with developing, planning, and managing statewide programs to enhance the status of state listed sensitive and federally listed species. Provided technical advice on management actions to enhance the status of native species. Provided technical review on a variety of governmental documents dealing with native species; prepared draft response letters; analyzed data; prepared reports; supervised field technicians; provided field assistance to crews; prepared and reviewed research proposals; and assisted in the preparation of conservation strategies and recovery

plans. Surveyed streams and rivers in the Heber Valley to determine distribution and population status of leatherside chub.

*1994-96 (Conducted during graduate studies at Brigham Young University)*

- Participated in research project in Costa Rica. Surveyed streams and rivers collecting *Brachyraphis rapbdophora* for life history research.
- Teaching Assistant: Ichthyology and Introductory Biology
- Surveyed Raft River drainage (Idaho), Bear River drainage (Wyoming), Spanish Fork, Sevier, and Beaver River drainages (Utah) to determine distribution and population status of leatherside chub. Collected data to determine characteristics of macro and microhabitats occupied by leatherside chub. Collected leatherside chub specimens for life history and DNA analysis from Sulphur Creek (Wyoming), Thistle Creek, Sevier River, Provo River (Utah), and Trapper Creek (Idaho). Sampled using backpack electroshocker, recorded vital data and extracted muscle tissue samples. Lab work included sex determination, extraction of otoliths for age determination, and use of electron microscope to read otoliths.
- Participated in research project in Canyonlands National Park on the Green and Colorado Rivers. Collected samples from artificial substrate, plankton, benthos, and drift to characterize invertebrate community composition.

*1992-94 (Conducted during undergraduate studies at Arizona State University)*

- Drafted Environmental Impact Statement (DEIS) on the McDowell Mountains, Scottsdale, Arizona.
- Surveyed for introduced red shiner (*Notropis lutrensis*) in Aravaipa Creek, Arizona.
- Participated in razorback sucker (*Xyrauchen texanus*) research in Lake Mohave, Arizona.
- Participated in Desert Tortoise (*Gopherus agassizii*) telemetry survey, Baghdad, Arizona.

#### **PROFESSIONAL SOCIETY MEMBERSHIP**

- American Society of Ichthyologists and Herpetologists
- Desert Fishes Council
- American Fisheries Society, parent Society
- Bonneville Chapter American Fisheries Society

#### **PROFESSIONAL PRESENTATIONS**

- 2005 Desert Fishes Council, Cuatro Cienegas, Mexico. Status of least chub (*Lotichthys phlegethontis*) in Utah.
- 2005 Goshute Tribal Council, Ibabah, Utah. Conservation agreement and strategy for spotted frog and least chub.
- 2004 Western Division American Fisheries Society, Salt Lake City, Utah. Response of Columbia spotted frog (*Rana luteiventris*) to restoration efforts in the Heber Valley.

- 2004 Western Division American Fisheries Society, Salt Lake City, Utah. Status of least chub (*lotichthys phlegethontis*) in Utah.
- 2004 Desert Fishes Council, Tucson, Arizona. Response of Columbia spotted frog (*Rana luteiventris*) to restoration efforts in the Heber Valley.
- 2004 Landowners in Ibapah. Endangered species act versus Utah Sensitive Species List.
- 2004 Landowners Workshop, Tooele, Utah. Endangered species act versus Utah Sensitive Species list.
- 2003 Spotted Frog Rangewide meeting, Reno, Nevada. Spotted frog progress, conservation easements, and chytrid fungus status in Utah.
- 2002 Spotted Frog Rangewide meeting, Reno, Nevada. Spotted frog monitoring protocol.
- 2000 Wildlife Society, Brigham Young University. Endangered Species Act versus Conservation Agreements.
- 1999-2005 Dead Cats Society, Snow College. Annually present some aspect of native species conservation and education to the college conservation group.
- 1997 Desert Fishes Council Meeting, Death Valley, California. Historical and current Distribution of leatherside chub (*Gila copei*) in Utah: Plans for Recovery.
- 1996 American Fisheries Society, Western Division. Habitat Use and Preference of the Leatherside Chub (*Gila copei*).
- 1996 Bonneville Chapter American Fisheries Society. Habitat Use and Preference of the Leatherside Chub (*Gila copei*) in its Native Range.

## **CERTIFICATION**

- Noncommercial pesticide applicator license
- Red Cross CPR Emergency Training and Certification

## **TRAINING**

- Certified Public Manager, Courses 1 and 2
- Population Assessment, Bonneville Chapter AFS, Continuing Education
- Reservoirs: Techniques and Perspectives for Fishery Management Workshop, Bonneville Chapter AFS, Continuing Education
- Introduction to ArcView GIS and ArcView 9.1

### ***State Of Utah Training Courses***

- Introduction to Strategic Planning
- Corrective Action and Discipline
- GRAMA for Supervisors
- Utah Job Match for Supervisors
- Workplace Violence Prevention for Supervisors
- Sexual Harassment Prevention for Supervisors
- Ethics for State Employees
- Defensive Driving

## AWARDS

- 2004- Employee of the Year, Utah Department of Natural Resources
- 2003- Incentive Award, Utah Department of Natural Resources
- 2002- Incentive Award, Utah Department of Natural Resources
- 2002- Fisheries Professional of the Year, Bonneville Chapter American Fisheries Society
- 2001 Award of Merit, Bonneville Chapter American Fisheries Society
- 1997-2004- Numerous IRA Awards

1994-96 (Brigham Young University)

- D Elden Beck Award
- Utah Division Wildlife Resources Fellowship Grant
- Idaho Department Fish & Game Fellowship Grant
- American Fisheries Society grant-in-aid of research
- Zoology Department Tuition Award
- Graduate Department Costa Rica Research Award

1991-94 (Arizona State University)

- Leadership and Scholastic Excellence, Morrison-SABER Award, Department of Range and Environmental Sciences, Arizona State University (awarded three consecutive years)
- Scholastic Excellence, College of Engineering and Applied Sciences, Arizona State University (awarded 2 consecutive years).

## PUBLICATIONS

Belk, M.C., J. B. Johnson, **K. W. Wilson**, M. E. Smith, and D. D. Houston. 2005. Variation in intrinsic individual growth rate among populations of leatherside chub (*Snyderichthys copei* Jordan & Gilbert): adaptation to temperature or length of growing season. *Ecology of Freshwater Fish*: 2005 14:177-184.

Bailey, C. L., **K. W. Wilson** and M. E. Andersen. 2005. Conservation Agreement and Strategy for Least Chub (*Lotichthys phlegethontis*) in the State of Utah. Publication number 05-24. Utah Division Wildlife Resources, Salt Lake City, Utah.

Miller, P. A., **K. W. Wilson**, P. Thompson, and B. Nadolski. 2004. The status of leatherside chub (*Gila copei*) in Utah. *In*: Proceedings of Western Division American Fisheries Society Meeting, Salt Lake City, Utah, March 2004.

Ammon, E. M., C. R. Gourley, **K. W. Wilson**, D. A. Ross, and C. R. Peterson. 2003. Advances in habitat restoration for the Columbia spotted frog (*Rana luteiventris*): A case study from the Provo River population. *In* California Riparian Systems:

Processes and Floodplain Management, Ecology, and Restoration. 2001 Riparian Habitat and Floodplain Conference Proceedings, Riparian Habitat Joint Venture, Sacramento CA. P. M. Faber, Editor.

National Audubon Society Field Guide to Fishes. 2002. Photo credit for least chub (*Lotichthys phlegethontis*) and leatherside chub (*Gila copei*) photos in 2002 revised edition.

Hudson, J. M., **K.W. Wilson**, L. D. Lentsch, and K. D. Christopherson. 2002. State of Utah Stocking Plan for Endangered Fish Species of the Upper Colorado River Basin. Prepared for the Colorado River Recovery Implementation Program.

Wilson, K. W. and M. C. Belk. 2001. Habitat characteristics of leatherside chub (*Gila copei*) at two spatial scales. *Western North American Naturalist* 61(1): pp. 36-42.

Wilson, K.W. and C. W. Thompson. 2001. Evaluation of Larvae Movement (*Chasmistes liorus*) in the Provo River in 1998. Final Report. Utah Division Wildlife Resources, Salt Lake City, Utah. Publication Number 01-18.

Wilson, K.W. and C. K. Balcombe. 2001. Columbia Spotted Frog (*Rana luteiventris*) Habitat Management Plan San Pitch River Subunit. Final Plan. Utah Division Wildlife Resources, Salt Lake City, Utah. Publication Number 01-10.

Wilson, K. W. 2001. Spotted Frog Habitat Management Plan for the San Pitch and Spanish Fork River Drainages. *In: Species on the Edge*. Utah Department of Natural Resources.

Wilson, K. W. and L. D. Lentsch. 1998. Current distribution and population abundance of leatherside chub (*Gila copei*) in the Heber Valley. Prepared for Utah Reclamation Mitigation and Conservation Commission, Publication Number 98-13. Utah Division of Wildlife Resources, Salt Lake City, Utah.

Wilson, K. W. and M. C. Belk. 1996. Current distribution and habitat use of leatherside chub (*Gila copei*) in portions of the Snake River drainage of Southern Idaho. Idaho Department of Fish and Game, Req. No. 5517410, SEPA 4238.

Wilson, K. W. and M. C. Belk. 1996. Current distribution and habitat use of leatherside chub (*Gila copei*) in the Sevier and Beaver drainages of south central Utah. Utah Division Wildlife Resources, No. 93-0870.

Wilson, K. W. 1996. Habitat characteristics of leatherside chub (*Gila copei*) at two spatial scales. Masters Thesis, Department of Zoology, Brigham Young University.

## **ANNUAL REPORTS**

- Wilson, K. W., C. Sanders and C. Black. 2005. Transfer June sucker from Red Butte Reservoir. Final Report. Prepared for the June Sucker Recovery Implementation Program. Project. Number: V.05.12. Utah Department of Natural Resources, Salt Lake City, Utah.
- Wilson, K. W., C. Sanders, and C. Black. 2005. Monitoring adult June sucker populations in Utah Lake and the Provo River in 2005. Prepared for the June Sucker Recovery Implementation Program. Project Number V.05.03. Utah Department of Natural Resources, Salt Lake City, Utah.
- Wilson, K. W., C. Sanders, and C. Black. 2005. Brood stock development through collection of June sucker eggs and larvae from the Provo River. Prepared for the June Sucker Recovery Implementation Program. Project Number IV.05.01. Utah Department of Natural Resources, Salt Lake City, Utah.
- Wilson, K. W. and M. D. Mills. 2004. Least Chub (*Lotichthys phlegethontis*) Monitoring Summary Central Region 2004. Final Report. Utah Division Wildlife Resources, Salt Lake City, Utah. Publication Number 05-18.
- Mills, M. D., E. M. DuRoss, and K. W. Wilson. 2004. Columbia Spotted Frog (*Rana luteiventris*) Monitoring Summary: Central Region 2004. Final Report. Utah Division Wildlife Resources, Salt Lake City, Utah, Publication Number 05-23.
- Wilson, K. W., J. E. Rasmussen, and C. Black. 2004. Monitor June sucker Red Butte Reservoir refuge population and use as a source for transfer. Final Report. Prepared for the June Sucker Recovery Implementation Program. Project. Number: V.04.12. Utah Department of Natural Resources, Salt Lake City, Utah.
- Rasmussen, J. E., C. Black and K. W. Wilson. 2004. Monitoring adult June sucker populations in Utah Lake and the Provo River in 2004. Prepared for the June Sucker Recovery Implementation Program. Project Number V.04.03. Utah Department of Natural Resources, Salt Lake City, Utah.
- Rasmussen, J. E. C. Black and K. W. Wilson. 2004. Brood stock development through collection of June sucker eggs and larvae from the Provo River. Prepared for the June Sucker Recovery Implementation Program. Project Number IV.04.01. Utah Department of Natural Resources, Salt Lake City, Utah.
- Wilson, K. W., J. E. Rasmussen, and C. Black. 2004. Evaluate June sucker size at stocking and survival in Utah Lake. Prepared for the June Sucker Recovery

Implementation Program. Project Number: IV.04.13/V.04.13. Utah Department of Natural Resources, Salt Lake City, Utah.

Wilson, K. W., J. E. Rasmussen, and C. Black. 2004. Investigation of capture techniques and timing for June sucker monitoring in Utah Lake. Prepared for the June Sucker Recovery Implementation Program. Project Number: V.04.14. Utah Department of Natural Resources, Salt Lake City, Utah.

Wilson, K.W. and C. M. Davidson. 2003. Least Chub (*Iotichthys phlegethontis*) Monitoring Summary Central Region 2003. Final Report. Utah Division Wildlife Resources, Salt Lake City, Utah. Publication Number 04-29.

Wilson, K.W., J. C. Whiting and C. M. Davidson. 2003. Amphibian Surveys conducted in the Central Region 1999-2003. Final Report. Utah Division Wildlife Resources, Salt Lake City, Utah. Publication Number 04-28.

Wilson, K.W., C M. Davidson and E. M. DuRoss. 2003. Columbia Spotted Frog (*Rana luteiventris*) Monitoring Summary: Central Region 2003. Final Report. Utah Division Wildlife Resources, Salt Lake City, Utah, Publication Number 04-27.

Rasmussen, J. E. and K. W. Wilson. 2003. Monitor June sucker Red Butte Reservoir refuge population and use as a source for transfer. Final Report. Prepared for the June Sucker Recovery Implementation Program. Project. Number: V.0.13. Utah Department of Natural Resources, Salt Lake City, Utah.

Rasmussen, J. E. and K. W. Wilson. 2003. Monitoring adult June sucker populations in Utah Lake and the Provo River in 2003. Prepared for the June Sucker Recovery Implementation Program. Project Number V.03.03. Utah Department of Natural Resources, Salt Lake City, Utah.

Rasmussen, J. E. and K. W. Wilson. 2003. Brood stock development through collection of June sucker eggs and larvae from the Provo River. Prepared for the June Sucker Recovery Implementation Program. Project Number IV.03.01. Utah Department of Natural Resources, Salt Lake City, Utah.

Wilson, K.W. and R. Olsen. 2002. Columbia Spotted Frog (*Rana luteiventris*) Monitoring Summary: Central Region 2002. Final Report. Utah Division Wildlife Resources, Salt Lake City, Utah, Publication Number 03-23.

Wilson, K.W. and J.C. Whiting. 2002. Least chub (*Iotichthys phlegethontis*) Monitoring Summary for the Central Region 2002. Annual Report. Utah Division Wildlife Resources Salt Lake City, Utah. Publication Number 03-08.

- Wilson, K. W. and R. Hepworth. 2002. Monitor and Maintain June Sucker Refuge Populations in Red Butte and Camp Creek Reservoirs, and Arrowhead Pond. Final Report. Prepared for the June Sucker Recovery Implementation Program. Project Number: IV.02.14. Utah Department of Natural Resources, Salt Lake City, Utah.
- Wilson, K. W., R. Hepworth and J. E. Rasmussen. 2002. Monitoring adult June sucker populations in Utah Lake and the Provo River in 2002. Prepared for the June Sucker Recovery Implementation Program. Project Number V.02.06. Utah Department of Natural Resources, Salt Lake City, Utah.
- Wilson, K. W., R. Hepworth and J. E. Rasmussen. 2002. Brood stock development through collection of June sucker eggs and larvae from the Provo River. Prepared for the June Sucker Recovery Implementation Program. Project Number IV.02.01. Utah Department of Natural Resources, Salt Lake City, Utah.
- Wilson, K.W. and R. Olsen. 2001. Columbia Spotted Frog (*Rana luteiventris*) Population Monitoring Summary: Central Region 2001. Final Report. Utah Division Wildlife Resources, Salt Lake City, Utah, Publication Number 01-23.
- Wilson, K.W. and J.C. Whiting. 2001. Least chub (*Lotichthys phlegethontis*) Monitoring Summary for the Central Region 2000-2001. Final Report. Utah Division Wildlife Resources Salt Lake City, Utah. Publication Number 02-30.
- Wilson, K. W. and R. Hepworth. 2001. Brood stock development through collection of June sucker eggs and larvae from the Provo River. Final Report. Prepared for the June Sucker Recovery Implementation Program. Project Number: IV.01.01. Utah Department of Natural Resources, Salt Lake City, Utah.
- Wilson, K. W. and R. Hepworth. 2001. June sucker transfer from Red Butte Reservoir to Utah Lake. Final Report. Prepared for the June Sucker Recovery Implementation Program. Project Number: IV.01.09. Utah Department of Natural Resources, Salt Lake City, Utah.
- Wilson, K. W. and R. Hepworth. 2001. Monitoring adult June sucker populations in Utah Lake and the Provo River in 2001. Final Report. Prepared for the June Sucker Recovery Implementation Program. Project Number V.01.06. Utah Department of Natural Resources, Salt Lake City, Utah.
- Wilson, K.W. and C. K. Balcombe. 2000. Columbia Spotted Frog Monitoring Summary: Central Region. Annual Report. Utah Division Wildlife Resources, Springville, Utah.

- Ammon, E. M. and K. W. Wilson. 2000. Update on Wasatch Front Columbia Spotted Frog Studies in Heber Valley; Monitoring, Habitat Use, and Movement Studies. Prepared for Utah Reclamation Mitigation Conservation Commission. Utah Division Wildlife Resources, Springville, Utah.
- Wilson, K. W., C. Black, and J. E. Rasmussen. 2000. June Sucker (*Chasmistes liorus*) Monitoring Activities in the Central Region, 1999-2000. Utah Division Wildlife Resources, Springville, Utah.
- Wilson, K.W., C. K. Balcombe and J.C. Whiting. 1999. Least chub (*Iotichthys phlegethontis*) Monitoring Survey for the Central Region 1999. Final Report. Utah Division Wildlife Resources Salt Lake City, Utah.
- Fridell, R.A., K. L. Schroeder, C. K. Balcombe, T. C. Hogrefe, T.C. and **K. W. Wilson**. 1999. Least Chub (*Iotichthys phlegethontis*) Monitoring Summary in Snake Valley, Utah.
- Wilson, K.W. and C.K. Balcombe. 1999. Columbia Spotted Frog: Summary of Monitoring Activities Conducted in the Central Region. Annual Report. Utah Division Wildlife Resources, Springville, Utah.
- Wilson, K.W. and W. T. Richards. 1998. Columbia Spotted Frog (*Rana luteiventris*) Monitoring Activities in the Central Region. Annual Report. Utah Division Wildlife Resources, Springville, Utah.
- Wilson, K. W., and L. D. Lentsch. 1998. Annual Progress Report for Bonneville Cutthroat Trout (*Oncorhynchus clarkii utah*) in the state of Utah. Prepared for Utah Reclamation Mitigation and Conservation Commission, Publication Number 98-08. Utah Division of Wildlife Resources, Salt Lake City, Utah.
- Wilson, K. W. and L. D. Lentsch. 1998. Native Cutthroat Trout Restoration and Conservation: Annual Progress Report, Fiscal Year 1996. Prepared for Utah Reclamation Mitigation and Conservation Commission. Utah Division of Wildlife Resources, Salt Lake City, Utah.
- Wilson, K. W., M. J. Perkins, and L. D. Lentsch. 1998. Utah Lake Fish Management: Annual Progress Report, Fiscal Year 1996. Prepared for Utah Reclamation Mitigation and Conservation Commission. Utah Division of Wildlife Resources, Salt Lake City, Utah.
- Wilson, K. W., M. J. Perkins, and L. D. Lentsch. 1998. Utah Lake Fish Management: Annual Progress Report Fiscal Year 1995. Prepared for Utah Reclamation

Mitigation and Conservation Commission. Utah Division of Wildlife Resources, Salt Lake City, Utah.

**SKILLS AND TECHNIQUES:**

- Designed, implemented and analyzed field investigations. Proficient in statistical analysis with ability to make biological inferences concerning analyses results.
- Conducted surveys and inventory of streams and lakes obtaining physical, chemical and biological information.
- Proficient in writing technical and scientific reports, proposals, and obtaining grants.
- Performed thorough literature searches.
- Understanding of environmental review processes including Environmental Impact Statements and Environmental Assessments.
- Familiar with Federal and State Laws influencing environmental quality: NEPA, ESA, U.S. Army Corps (404 permits etc.), Clean Water Act, Clean Air Act, Migratory Bird Treaty Act, Federal Land Management Policy,
- Extensive experience in managing and supervising employees.
- Certified scuba diver (PADI).

**COMPUTER SOFTWARE:**

Word Perfect, Microsoft Word, Excel, QuattroPro, dBase, SAS, Mini-tab, Adobe Photoshop, and ARC/VIEW®.

**SAMPLING EQUIPMENT AND TECHNIQUES:**

GPS units, backpack electroshocker, boat electroshocker, gill nets, seine nets, bottom trawl sampling, Global Flow Probe, Hydrolab H20® Multiparameter Water Quality Data Transmitter, Winkler dissolved oxygen method, DO-6 oxygen meter, pHep-pH electronic paper, Secchi Disk, LaMotte Turbidimeter, Electronic conductivity meter, Van Dorn water sampler, zooplankton conical tow net, and Mini-piezometer.

Operation of ATVs, small outboard watercraft, four-wheel drive vehicles, radio telemetry equipment, and horses. Proficient in principles of taxonomy, identification of species in the field, and ability to use field guides and keys. Sampled vegetation using the line intercept, Parker 3-step, split-plot, and Green Line methods. Proficient in use of USGS topographical maps.

**LAB EQUIPMENT AND TECHNIQUES:**

Electron microscopy, calibration and maintenance of field and laboratory equipment, otolith extraction and analysis, specimen dissection and identification of internal anatomy, collection, preparation and preservation of specimens for museum.

**PREVIOUS EMPLOYMENT HISTORY:**

1989-94: Merchandising Manager, Phoenix, Arizona, Lantis Merchandising, New York, NY.

1986-89: Buyer, Merchandiser and Regional Supervisor, Family Clothiers - Salt Lake City, Utah. Planned, implemented, and monitored merchandising and buying for chain of 20 stores. Hired and supervised store managers.

1983-86: Area supervisor and Store manager. Family Clothiers - Salt Lake City, UT. Managed Logan store and supervised managers of eight stores.