

# Cheryl M. Collins

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## Education

M.A.	2009	University of Nevada, Las Vegas	Anthropology
M.L.S.	1991	University of North Texas, Denton	Library Science
B.S.	1989	University of North Texas, Denton	Secondary Education

## GIS Experience

2015-Present Staff Research Scientist - GIS, Desert Research Institute

- Management of incoming workflow and deadlines for GIS projects.
- Creation of new procedures to meet needs of project scientists.
- Carry out spatial analysis on datasets provided by PIs.
- Attend meetings and give presentations to clients on GIS data and capabilities.
- ESRI Technical Representative for the Las Vegas campus since 2010.
- Convert field data to map-ready GIS datasets; create maps for reports.

2014-Present Part-time Instructor, Nevada State College

- ENV 480, GIS for Environmental Management.

2004-2014 GIS Technician, Desert Research Institute

## Archaeological Experience

2001-present Technician, Desert Research Institute

- Field tech, Crew Chief and PI on cultural resource projects in southern and eastern Nevada, as well as the Arizona Strip.
- Production of maps, with a specialization in maps for cultural resource inventory documents.
- Production of cultural resource site forms and short reports.

## Other Experience

2001-present Technician, Desert Research Institute

- Manage supplies, equipment inventory, and educational materials for Community Environmental Monitoring Program; supervise hourly employee

### **Background Information**

Cheryl Martin Collins is an archaeologist and GIS analyst. Using ArcGIS, Cheryl provides computer mapping and modeling for various scientific projects at DRI. She has developed new procedures for converting 2D geologic cross sections into 3D models and representing accurate well log data in an ArcMap environment. Cheryl is proficient in designing GIS tool models to carry out complex procedures, and has also been trained in the acquisition and use of remote sensing products from various government and university-based resource portals. She periodically teaches a course in using GIS for environmental management at Nevada State College.

Cheryl's archaeological field experience primarily covers the eastern and southern Great Basin prehistoric cultures. During her employment with the Desert Research Institute, Cheryl has worked on archaeological projects in southern Nevada, particularly in Nye and Lincoln counties. The focus of her academic research involved stone tool production and use by the Virgin Anasazi at Mt. Trumbull, located in far northwestern Arizona, and the exchange of obsidian between the Virgin Anasazi and other regional groups. Using X-ray fluorescence technology on obsidian artifacts recovered from Mt. Trumbull, Cheryl has identified additional trade directions beyond those which had been previously discovered through research on the exchange of shell, turquoise, and pottery through northwestern Arizona. She was invited to present her Virgin Anasazi research at a symposium during the Annual Meeting of the Society for American Archaeology in 2005 and the Great Basin Anthropological Conference in 2006. With a grant from DRI's Lander Endowment, Cheryl also served as the PI on a project to carry out a cultural resources inventory on BLM land north of Cathedral Gorge State Park to facilitate the transfer of the northern part of the gorge to the State of Nevada.

Cheryl served five years as the president of the Archaeo-Nevada Society and was a recipient of a Nevada Historic Preservation Award in 2005. She volunteered as lead archaeologist on a project with Archaeo-Nevada to prepare artifacts excavated from the Elwood B site in Overton, NV for curation at the Lost City Museum. In addition to volunteer work related to archaeology, she also serves as an academic mentor to college students in the Foster Care 2 Success program.

### **Selected Bibliography**

Collins, C.M.

2012 *A Class III Cultural Resources Inventory in Preparation for the Transfer of Land from the Bureau of Land Management to Cathedral Gorge State Park in Lincoln County, Nevada*. Desert Research Institute. Submitted to the Bureau of Land Management Caliente Field Office. BLM Report 8111 NV-04-12-1968.

Edwards, S., M. King, and J. Wedding, with contributions by C. Collins  
2012 *Class III Archaeological Inventory of 3,340 acres for the Project 801 Power Line from Coyote Springs Valley to the Nevada Test and Training Range in Lincoln County, Nevada*. Desert Research Institute. Submitted to the Bureau of Land Management Caliente Field Office. BLM Report No. 8111-NV-04-08-1877.

Martin, Cheryl M.

2009 Analysis of flaked stone lithics from Virgin Anasazi sites near Mt. Trumbull, Arizona Strip. Master's thesis, Department of Anthropology, University of Nevada, Las Vegas.

**Spatial analysis results by C. Collins have appeared in the following:**

Cooper, C.A., R.L. Hershey, J.M. Healey, and B.F. Lyles  
2013 Estimation of Groundwater Recharge at Pahute Mesa Estimated using the Chloride Mass Balance Method. Desert Research Institute. Submitted to the U.S. Department of Energy.

Shafer, D.S., C. Martin, K.F. Pohlmann, C.E. Russell, M. Ye, J. Engelbrecht, T. Minor, and L. Bishop  
2005 Establishing baseline environmental conditions for the proposed Yucca mountain repository, Nevada, U.S.A. Presented at the 10th International Conference on Environmental Remediation and Radioactive Waste Management, Glasgow, Scotland.

Pohlmann, K., J. Zhu, and J. Healey  
2012 Significance of Groundwater Divide in Water Accounting and Return Flow Calculation for Lower Colorado River Aquifers. Desert Research Institute. Submitted to the U.S. Bureau of Reclamation.

**Reports containing maps/plates produced by C. Collins**

Pohlmann, K. et. al.

In Review *Assessment of the Migration Potential of Hydraulic Fracturing Fluids in the Upper Humboldt River Basin, Nevada*.

Chapman, J., C. Cooper, B. Lyles, R. Hershey, and J. Healey

In Review *Handbook: Collecting Groundwater Samples from Monitoring Wells in Frenchman Flat, CAU 98*.

Wedding, Jeffrey R., and Susan R. Edwards

*2014 A Class III Cultural Resource Inventory of Approximately 61 miles for a Proposed Fiber Optic Line from the Tolicha Peak Facility (TPECR) to the North End of Range 74B, Nevada Test and Training Range in Nye County, Nevada.* Prepared for the Department of the Air Force, Tonopah Test Range Ops Office. DRI Report No. SR72511-1.

Edwards, Susan R. and Jeffrey R. Wedding

*2013 Addendum to DRI Short Report SR080701-1 Documenting Additional Class III Cultural Resource Inventory for Modification of the Existing P-74 System Pad Location on the Nevada Test and Training Range in Nye County, Nevada.* Prepared for the Department of the Air Force, Tonopah Test Range Ops Office. DRI Report No. SR080701-1A.

Edwards, Susan R. and Jeffrey R. Wedding

*2013 A Class III Cultural Resource Inventory for a New Fiber Line Install to Reuse Station 36 on the Nevada Test and Training Range in Nye County, Nevada.* Prepared for the Department of the Air Force, Tonopah Test Range Ops Office. DRI Report No. SR043013-1.

Edwards, Susan R. and Jeffrey R. Wedding

*2013 A Class III Cultural Resource Inventory for the P-70A Ground Test Area Project on the Nevada Test and Training Range in Nye County, Nevada.* Prepared for the Department of the Air Force, Tonopah Test Range Ops Office. DRI Report No. SR073113-1.

Edwards, Susan R. and Jeffrey R. Wedding

*2012 A Class III Cultural Resource Inventory for Proposed Modifications to Cedar Pass Gate on the Nevada Test and Training Range in Nye County, Nevada.* Prepared for the Department of the Air Force, Tonopah Test Range Ops Office. DRI Project No. 1308TR. DRI Report No. SR110712-1.

Edwards, Susan R. and Jeffrey R. Wedding

*2012 A Class III Cultural Resource Inventory of a Proposed Boresite Tower Location Near P-77 on the Nevada Test and Training Range in Nye County, Nevada.* Prepared for the Department of the Air Force, Tonopah Test Range Ops Office. DRI Project No. 1309TR. DRI Report No. SR110712-2.

Edwards, Susan R. and Jeffrey R. Wedding

*2012 A Class III Cultural Resource Inventory of a Proposed System Pad Location Near the P-41 Facility on the Nevada Test and Training Range in Nye County, Nevada.* Prepared for the Department of the Air Force, Tonopah Test Range Ops Office. DRI Project No. 1310TR. DRI Report No. SR110712-3.

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Pippin, Lonnie C.

2012 *A Class III Cultural Resource Survey for Thirty Proposed System Pads on the Nevada Test and Training Range in Nye County, Nevada*. Prepared for the Department of the Air Force, Tonopah Test Range Ops Office. DRI Report No. SR082311-1.

Wedding, Jeffrey R.

2012 *Four Arizona Nevada Tower Corporation (ANTC) Proposed Cell Tower Location Class III Cultural Resource Inventory Surveys for the Proposed Hickison, Kingston, Dyer, and Palmetto Mtn Facilities*. Prepared for Arizona Nevada Tower Corporation. BLM Report 6-3070/DRI Report No. SR092512-1