

# Melissa E. Hill, Ph.D., C.P.G.

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## Certification & Licenses

*Certified Professional Geologist (#11476)*  
American Institute of Professional Geologists

*Licensed Professional Geoscientist (#1316)*  
Texas Board of Professional Geoscientists

*Licensed Professional Geologist (#2402)*  
Florida Department of Business and Professional Regulation

*Licensed Professional Geologist (#669)*  
Alaska Division of Corporations, Business and Professional Licensing

## Professional Work Experience

Environmental Specialist, Northside Independent School District, July 2019-present  
Hydrologist IV, Alaska Department of Natural Resources, January 2014-July 2017  
Adjunct Faculty, University of Alaska Anchorage, August 2013-December 2013  
Hydrologist III, Alaska Department of Natural Resources, May 2012-December 2013  
Geoscientist IV, Texas Water Development Board, May 2009-June 2011  
Geoscientist III, Texas Water Development Board, September 2008-April 2009  
Hydrologist, Southwest Florida Water Management District, May 2003-June 2008  
Graduate Teaching Assistant, University of South Florida, August 2002-May 2003  
Scientist, Southwest Research Institute, December 1998-June 2002  
Intern, Southwest Research Institute, February 1996-December 1998

## Education

Ph.D. Geology, University of South Florida, Tampa, Florida, August 2008  
M.S. Geology, University of Texas at San Antonio, San Antonio, Texas, August 1999  
B.A. Geology, St. Mary's University, San Antonio, Texas, December 1995

## Professional Publications

Hutchison, W.R. and **Hill, M.E.**, 2011, Numerical Evaluations of Alternative Spring Discharge Conditions for Barton Springs, Texas, USA, *in* Kuniansky, E.L., ed., U.S. Geological Survey Karst Interest Group Proceedings, Scientific Investigations Report-2011-5031, p. 182-190.

**Hill, M.E.**, Stewart, M.T., and Martin, A., 2010, Evaluation of the MODFLOW-2005 Conduit Flow Process: *Ground Water*, v. 48, no. 4, p. 549-559.

Reimann, T. and **Hill, M.E.**, 2009, MODFLOW-CFP: A New Conduit Flow Process for MODFLOW-2005 (Software Spotlight): *Ground Water*, v. 47, no. 3, p. 321-325.

**Hill, M.E.**, Martin, A. and Stewart, M.T., 2008, Performance evaluation of the MODFLOW-2005 Conduit Flow Process applied to a karst aquifer underlying west-central Florida, *in* Kuniansky, E.L., ed., U.S. Geological Survey Karst Interest Group Proceedings, Science Investigations Report-2008-5023, p. 93-98.

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**Hill, M.E.** and Martin, A., 2008, A conceptual model of preferential flow pathways in a karst aquifer using multiple data types, *in* Sasowsky, I.D., Feazel, C.T., Mylroie, J.E., Palmer, A.N., and Palmer, M.V., eds., *Karst from Recent to Reservoirs: Karst Waters Institute Special Publication 14*, p. 95-103.

**Hill, M.**, Winterle, J., Farrell, D., Sims, D., and Bertetti, P., 2002, Conceptual models of the potentiometric surface at Yucca Mountain, Nevada, 2002 Spring Meeting: American Geophysical Union, abstract H41D-04.

**Hill, M.**, Bagtzoglou, A., Green, R., Angell, P. Juza, B., 2001, Laboratory and numerical analyses of bio-barrier development, *in* Warwick, J.J., ed., *Water Quality Monitoring and Modeling Proceedings: American Water Resources Association*, p. 247-252.

Bertetti, F.P., **Hill, M.E.**, Bagtzoglou, A.C., Birnbaum, S.J., and McAllister, L.P., 2000, Experiences in laboratory studies of the effects of bioclogging of porous media, *Abstract with Programs*, v. 32(7): Geological Society of America, p. A-354.

Green, R.T., Prikryl, J.D., and **Hill, M.E.**, 1997, Assessment of heat flow through bulk geologic material, *Proceedings of the 24<sup>th</sup> International Thermal Conductivity Conference*, p. 715-730.

## Awards

*Honorable Mention Alaska Governor's 2016 Denali Peak Performance Award Exceptional Performance Team, Alaska Department of Natural Resources*

## Professional Service

Volunteer Moderator, 2020, Booz Allen Middle/High School Science Bowl

Volunteer Judge, 2020, Alamo Regional Science and Engineering Fair

Volunteer, 2017, National Groundwater Modeling Advisory Panel, National Groundwater Association

Volunteer, 2008, National Groundwater Workshop at the U.S. Geological Survey National Training Center in Lakewood, Colorado, U.S. Geological Survey