

## BIBLIOGRAPHY

- Thomas, J.M., 1980, Water chemistry and flow system of the early Pennsylvanian Mansfield Formation aquifer system in Clay County, Indiana: Indiana University, M.A. thesis, 76 p.
- Harrill, J.R., Welch, A.H., Prudic, D.E., Thomas, J.M., Carman, R.L., Plume, R.W., Gates, J.S., and Mason, J.L., 1983, Aquifer systems in the Great Basin region of Nevada, Utah and adjacent states - a study plan: U.S. Geological Survey Open-File Report 82-445, 49 p.
- Schaefer, D.H., Thomas, J.M., and Duffrin, B.G., 1984, Principal facts for gravity stations in Dixie, Fairview and Stingaree Valleys, Churchill and Pershing Counties, Nevada: U.S. Geological Survey Open-File Report 84-586, 15 p.
- Welch, A.H., and Thomas, J.M., 1984, Aqueous geochemistry and isotope hydrology of the White River system, eastern Nevada: Geological Society of America Abstracts with Programs, v. 16, no.6, p. 689.
- Bedinger, M.S., Harrill, J.R., Langer, W.H., Thomas, J.M., and Mulvihill, D.A., 1985, Maps showing ground-water levels, springs, and depth to ground water, Basin and Range Province, Nevada: U.S. Geological Survey Water-Resources Investigations Report 83-4119-B, II p.
- Bedinger, M.S., Harrill, J.R., and Thomas, J.M., 1985, Maps showing ground-water units and withdrawal, Basin and Range Province, Nevada: U.S. Geological Survey Water-Resources Investigations Report 83-4119-A, 10 p.
- Thomas, J.M., Welch, A.H., and Preissler, A.M., 1985, Geochemical evolution of ground water in a hydrologically closed basin, northern Basin and Range Province, Nevada: Banff, Canada, Proc./Practical Appl. of Ground-Water Geochemistry Conf., June 1984, p. 189.
- Carlton, S.M., and Thomas, J.M., 1986, Documentation for a digital computer model of the basin-fill aquifer in Smith Creek valley, Lander County, Nevada: U.S. Geological Survey Regional Aquifer-System Analysis Report, 6 p.
- Thomas, J.M., Mason, J.L., and Crabtree, J.D., 1986, Ground-water levels in the Great Basin region of Nevada, Utah, and adjacent states: U.S. Geological Survey Hydrologic Investigations Atlas 694-B, 2 sheets.
- Thomas, J.M., and Hoffman, R.J., 1987, Nevada ground-water quality, in Moody, W.M., and others, National Water Summary 1986 - Hydrologic events and ground-water Quality: U.S. Geological Survey Water-Supply Paper 2325, p. 355-362.
- Harrill, J.R., Gates, J.S., and Thomas, J.M., 1988, Major ground-water flow systems in the Great Basin region of Nevada, Utah, and adjacent states: U.S. Geological Survey Hydrologic Investigations Atlas 694-C, 2 sheets.
- Harrill, J.R., Gates, J.S., Thomas, J.M., and Mifflin, M., 1988, Ground-water flow systems in the Great Basin, in Hydrogeology: Geological Society of America. The geology of North America, v. 0-2, plate 3, scale 1:1,000,000.
- Thomas, J.M., 1988, Delineation of regional ground-water flow systems in southern Nevada using isotopic and chemical data: Geological Society of America Abstracts with Programs, v. 20, no. 7, p. 363.
- Thomas, J.M., Carlton, S.M., and Hines, L.B., 1989, Ground-water hydrology and simulated effects of development in Smith Creek Valley, a hydrologically closed basin in Lander County, Nevada: U.S. Geological Survey Professional Paper 1409-E, 57 p.

- Thomas, J.M., Welch, A.H., and Preissler, A.M., 1989, Geochemical evolution of ground water in Smith Creek Valley--a hydrologically closed basin in central Nevada, U.S.A.: *Applied Geochemistry*, v. 4, no. 5, p. 493-510.
- Dettinger, M.D., Schaefer, D.H., and Thomas, J.M., 1990, Tertiary-age extensional patterns as a geologic framework for interpreting regional ground-water flow in the eastern Great Basin, Nevada and Utah, in Flanigan, D.M.H., and others, eds., *Oil fields and geology of the Pine Valley. Eureka County area, Nevada: 1990 Fieldtrip Guidebook*, Nevada Petroleum Society, p. 55.
- Thomas, J.M., Schaefer, D.H., and Dettinger, M.D., 1990, Use of geochemical data to trace ground-water flow, which could affect oil migration, in carbonate-rock aquifers of the eastern Great Basin, Nevada and Utah, in Flanigan, D.M.H., and others, eds., *Oil fields and geology of the Pine Valley, Eureka County area, Nevada: 1990 Fieldtrip Guidebook*, Nevada Petroleum Society, p. 56.
- Thomas, J.M., Welch, A.H., and Gundersen, L.C.S., 1990, Distribution and sources of radon 222 in ground water in the Carson River Basin, western Nevada and eastern California, U.S.A.: *Transactions, American Geophysical Union*, v.71, no. 43, p. 1305.
- Welch, A.H., Thomas, J.M., and Gundersen, L.C.S., 1990, Distribution and sources of uranium in the Carson River Basin, western Nevada and eastern California, U.S.A.: *Transactions, American Geophysical Union*, v. 71, no. 43, p. 1305.
- Thomas, J.M., Lyles, B.F., and Carpenter, L.A., 1991, Chemical and isotopic data for water from wells, springs, and streams in carbonate-rock terrane of southern and eastern Nevada and southeastern California, 1985-1988: *U.S. Geological Survey Open-File Report 89-422*, 24p.
- Thomas, J.M., 1993, Carbon-14 dating of ground water in carbonate-rock aquifers of southern Nevada - A complex problem: *Geological Society of America Abstracts with Programs*, v. 25, no. 6, p. A-90.
- Thomas, J.M., Welch, A.H. and Gundersen, L.C.S., 1993, Distribution and sources of uranium in ground water in the Carson River Basin, western Nevada and eastern California, U.S.A.: *35th Rocky Mountain Conference on Analytical Chemistry Program and Abstracts*. July 25- 29, 1993, abstract no. 322.
- Thomas, J.M., Welch, A.H., Lico, M.S., Hughes, J.L., and Whitney, R., 1993, Radionuclides in ground water of the Carson River basin, western Nevada and eastern California, U.S.A.: *Applied Geochemistry*, v. 8, no. 5, p. 447-471.
- Thomas, J.M., and Lawrence, S.J., 1994, Ground-water quality and geochemistry in Dayton, Stagecoach, and Churchill Valleys, western Nevada: *U.S. Geological Survey Open-File Report 93-356*, 69 p.
- Thomas, J.M., 1995, Water budget and salinity of Walker Lake, western Nevada: *U.S. Geological Survey Fact Sheet, ES-I 15-95*, 4 p.
- Welch, K.A., Lyons, W.B., Graham, E., Neumann, K., Thomas, A.M., and Mikesell, D., 1995, The determination of major element chemistry in terrestrial waters from Antarctica using ion chromatography: *International Ion Chromatography Symposium '95*, Dallas, Texas.
- Burr, G.S., Thomas, J.M., and Courtney, C., 1996, Radiocarbon dating of dissolved organic and inorganic components in groundwater: *Radiocarbon*, v. 38, no. 1, p. 12.
- Graham, M.J., Thomas, J.M., and Metting, F.B., 1996, Part 2 Water Resource Quality (Natural Systems) - Groundwater, in L.W. Mays, ed., *Water Resources Handbook*, Chap. 11: McGraw-Hill, p. 11.1-11.39.

- Maurer, D.K., Plume, R.W., Thomas, J.M., and Johnson, A.K., 1996, Water resources and effects of changes in ground-water use along the Carlin trend, north-central Nevada: U.S. Geological Survey Water-Resources Investigations Report 96-4134, 146 p.
- Thomas, J.M., 1996, Geochemical and isotopic interpretation of groundwater flow, geochemical processes, and age dating of groundwater in the carbonate-rock aquifers of the southern Basin and Range: University of Nevada, Reno, Ph.D. dissertation, 135 p.
- Thomas, J.M., Welch, A.H., and Dettinger, M.D., 1996, Geochemistry and isotope hydrology of representative aquifers in the Great Basin region of Nevada, Utah, and adjacent states: U.S. Geological Survey Professional Paper 1409-C, 100 p.
- Thomas, J.M., Winograd, I.J., and Coplen, T.B., 1996, Carbon-14 dating of groundwater in southern Nevada: Three decades of surprises: Geological Society of America Abstracts with Programs, v. 28, no. 7, p. A-197.
- Welch, K.A., Lyons, W.B., Graham, B., Neumann, K., Thomas, J.M., and Mikesell, D., 1996, Determination of major element chemistry in terrestrial waters from Antarctica by ion chromatography: *Jour. of Chromatography A*, v. 739, p. 257-263.
- Thomas, J.M., Allander, K.K., Peterson, D.H., and Dettinger, M.D., 1997, Salt budget of Walker Lake, a terminal lake in western Nevada: *Transactions. American Geophysical Union*, v. 78, no. 46, p. F-227.
- Welch, A.H., Lawrence, S.L., Thomas, J.M., Schaefer, D.H., and Lico, M.S., 1997, Ground-water quality assessment of the Carson River basin, Nevada and California: Results of investigations, 1987-1991: U.S. Geological Survey Water-Supply Paper 2356-A, 93 p.
- Tyler, S.W., Cook, P.G., Butt, A.Z., Thomas, J.M., Doran, P.T., and Lyons, W.B., 1998, Evidence of deep circulation in two perennially ice-covered Antarctic lakes: *Limnology and Oceanography*, v. 43, no. 4, p. 625-635.
- Burr G.S., Thomas J.M., Jeffrey D., and Courtney C., 1999, Sample preparation of Dissolved Organic Carbon in groundwater for AMS <sup>14</sup>C analysis: Proceedings: 8th International Conference on Accelerator Mass Spectrometry, 6-10 September, 1999. Vienna, Austria.
- Hershey, R.L., Rose T.P., Benedict, F.C., Thomas, J.M., 1999, Chemical and isotopic composition of groundwater recharge to the Oasis Valley flow system, Nevada: *Transactions. American Geophysical Union*, v. 80, no. 46, p. F-327.
- Rose T.P., Hershey, R.L., Thomas, J.M., Benedict, F.C., Hudson, G.B., Eaton, G.F., and Kenneally, J.M., 1999, Environmental isotopes in the Pahute Mesa-Oasis Valley groundwater flow system: *Transactions. American Geophysical Union*, v. 80, no. 46, p. F-328.
- Seiler, R.L., Zaugg, S.D., Thomas, J.M., and Howcroft, D.L., 1999, Caffeine and pharmaceuticals as indicators of wastewater contamination in wells: *Ground Water*, v. 37, no. 3, p. 405-410.
- Thomas, J.M., 1999, Comment on "Isotope hydrology of southern Nevada groundwater: stable isotopes and radiocarbon" by M.L. Davisson, D.K. Smith, J. Kenneally, and T.P. Rose: *Water Resources Research*, v. 35, no. 11, p. 3577-3579.
- Thomas, J.M., Benedict, F.C., Hershey, R.L., Rose T.P., 1999, Geochemical evaluation of sources, flow paths, and travel times of groundwater flow to Oasis Valley, Nevada: *Transactions. American Geophysical Union*, v. 80, no. 46, p. F-327.

- Thomas, J.M., Thodal, C.E., and Seiler, R.L., 1999, Identification of nitrate sources contributing to ground water in the Indian Hills area of Douglas County, Nevada: U.S. Geological Survey Water-Resources Investigations Report 99-4042, 22 p.
- Burr G.S., Thomas J.M., Reines D., Courtney C. and Jull A.J.T., 2000, Sample preparation of dissolved organic carbon in groundwater for AMS  $^{14}\text{C}$  analysis: Proceedings: 17th International Radiocarbon Conference, Judean Hills, Israel 18-23 June, 2000.
- Landmeyer, J.E., P.M. Bradley and J.M. Thomas, 2000, Biodegradation of disinfection byproducts as a potential removal process during aquifer storage and recovery: Journal of American Water Resources Association, v. 36, no. 4, p. 861-867.
- Thomas, J.M., W.A. McKay, E. Cole, J.E. Landmeyer, and P.M. Bradley, 2000, The fate of haloacetic acids and trihalomethanes in an aquifer storage and recovery program, Las Vegas, Nevada: Ground Water, v. 38, no. 4, 605-614.
- Thomas, J.M., M. Stute, J.F. Clark and G.B. Hudson, 2000, Noble gases suggest groundwater flow across flow barriers in southern Nevada: Geological Society of America Abstracts with Programs, A-483.
- Burr, G.S., J.M. Thomas, D. Reines, D. Jeffrey, C. Courtney, A.J.T. Jull and T. Lange, 2001, Sample preparation of dissolved organic carbon in groundwater for AMS  $^{14}\text{C}$  analysis: Radiocarbon, v. 43, p. 183-190.
- Gorham, T.A., J.M. Thomas, and D.P. Boyle, 2001, Modeling concentrations of total dissolved solids in the Walker River to estimate hysteresis patterns and loading in Walker Lake, a terminal lake in western Nevada: Geological Society of America Abstracts with Programs, A-182.
- Morse, B.S., J.M. Thomas, and G.S. Burr, 2001, Radiocarbon dating of groundwater using paleoclimatic data and dissolved organic carbon in the southern Great Basin, Nevada and California: Geological Society of America Abstracts with Programs, A-107.
- Pohll, G., D. McGraw, J. Ralston, B. Bohm, J. Thomas, A. McKay, M. Widmer, T. Minor, G. Lamorey, O. Dahan, R. Carroll, K. Cupp, E. Jacobson, E. McDonald, E. Stevick and J. Huntington, 2001. Evaluation of groundwater and solute transport in the Fernley-Wadsworth Area: Desert Research Institute Publication No. 41173, 282 p.
- Ralston, J., J.M. Thomas, B. Bohm, and W.A. McKay, 2001, The influence of irrigation infiltration on the evolution of groundwater chemistry near Fernley, Nevada: Geological Society of America Abstracts with Programs, A-110.
- Thomas, J.M., S.C. Calhoun and W.B. Apambire, 2001, A deuterium mass-balance interpretation of groundwater sources and flows in southeastern Nevada: Desert Research Institute Publication No. 41169, 46 p.
- Thomas, J.M., T.A. Gorham, and K.K. Allander, 2001, Salt budget of Walker Lake, Nevada: Nevada Water Resources Association Annual Conference Abstracts of Technical Presentations, p 17.
- Thomas, J.M., B.S. Morse, G.S. Burr, and D.L. Reines, 2001, Age dating groundwater using dissolved organic carbon—an example from southern Nevada, USA: Water-Rock Interaction, Proceedings of the 10<sup>th</sup> International Symposium on Water-Rock Interaction, 1581-1584.
- Lyons, W.B., L.V. Benson, T.D. Bullen, K.A. Welch, J.M. Thomas, C.H. Nezat, E.Y. Graham and J. Kidd, 2002, Strontium isotopic signatures of the streams and lakes of Taylor Valley, Southern Victoria Land, Antarctica: Chemical weathering in a polar climate: Aquatic Geochemistry, v. 8, no. 2, p. 75-95.

- Thomas, J.M. and K.F. Pohlmann, 2002, Knowing the sources of water flowing from springs in the Great Basin is critical to their management: Spring—Fed Wetlands Important Scientific and Cultural Resources of the Intermountain Region, May 7-9, 2002 Las Vegas, Nevada, p. 13.
- Thomas, J.M., 2002, An isotopic and geochemical evaluation of groundwater in the Tule Desert area of southeastern Nevada: Virgin Valley Water District Report, 22 p.
- Thomas, J.M., F.C. Benedict Jr., T.P. Rose, R.L. Hershey, J.B. Paces, Z.E. Peterman, I.M. Farnham, K.H. Johannesson, A.K. Singh, K.J. Stetzenbach, G.B. Hudson, J.M. Kenneally, G.F. Eaton, and D.K. Smith, 2002, Geochemical and isotopic interpretations of groundwater flow in the Oasis Valley Flow System, Southern Nevada: Desert Research Institute Publication no. 45190, 285 p.
- Benedict, F.C., T.P. Rose, J.M. Thomas, R. Waddell and R. Jacobson. 2003. Geochemistry Technical Basis Document. Desert Research Institute, Division of Hydrologic Sciences, Publication No. 45205.
- Leonard, A., Thomas, J., Burr, G., and C. Galang, 2003, A dedicated sample preparation line for dissolved organic carbon in groundwater. Proceedings of the 18<sup>th</sup> International Radiocarbon Conference, Wellington, New Zealand 1-5 September, 2003.
- Rose, T.P., F.C. Benedict Jr., J.M. Thomas, W.S. Sicke, R.L. Hershey, J.B. Paces, I.M. Farnham and Z.E. Peterman, 2003, Geochemical data analysis and interpretation of the Pahute Mesa-Oasis Valley groundwater flow system, Nye County, Nevada: UCRL Livermore, CA: Lawrence Livermore National Laboratory.
- Sicke, W. and J. Thomas, 2003, Geochemical and isotopic evaluation of Pahute Mesa-Oasis Valley groundwater flow paths, southern Nevada: Watershed Management for Water Supply Systems.
- Thomas, J. M., 2003. West Africa Water Initiative (WAWI) Water Chemistry Field Method Manual, Release 1.0, December 2003, 137 p.
- Thomas, J.M. and W.H. Albright, 2003, Estimated groundwater recharge to Dry Valley, Northwestern Nevada, using the chloride balance method: Desert Research Institute Publication no. 41191, 25 p.
- Thomas, J.M. and W. B. Apambire, 2003, A Deuterium Mass Balance Model Approach for Evaluating a Groundwater Budget of a Regional Flow System in Southeastern Nevada. Geological Society of America Abstracts with Programs, 252-4.
- Thomas, J.M., G.B. Hudson, M. Stute and J.F. Clark, 2003, Noble gas loss may indicate groundwater flow across flow barriers in southern Nevada. *Environmental Geology*, v. 43, 568-579.
- Thomas, J.M. and T.P. Rose, 2003, Special Topic: Environmental isotopes in Hydrogeology. *Environmental Geology*, v. 43, 532-533.
- Dahan, O., D. McGraw, E. Adar, G. Pohll, B. Bohm, and J. Thomas, 2004, Multi-variable mixing cell model as a calibration and validation tool for hydrogeologic groundwater modeling. *Journal of Hydrology*, v. 293, 115-136.
- Gunter, M., Thomas, J., Mihevc, T., and A. Hayvaert, 2004, Nutrient and suspended solid concentrations for stormwater runoff in the Lake Tahoe Basin. Publication of Abstracts, Research as a Tool in the Tahoe Basin Issues, 2<sup>nd</sup> Biennial Conference on Tahoe Environmental Concerns, May 17-19, 2004.
- Jones, T., Thomas, J., French, R. and T. Mihevc, 2004, Evaluation of effectiveness of three types of highway alignment BMPs for sediment and nutrient control. Publication of Abstracts, Research as a Tool in the Tahoe Basin Issues, 2<sup>nd</sup> Biennial Conference on Tahoe Environmental Concerns, May 17-19, 2004.

- Mihevc, T., Thomas, J. and M.Gunter, 2004, Evaluation of urban runoff BMP effectiveness through assessment of mechanical treatment technologies and wetland systems employed at the Stateline Stormwater Project. Desert Research Institute Publication no. 41204, 60 p.
- Thomas, J., Mihevc, T., Cooper, C., Gunter, M., Heyvaert, A. and G. Michalski, 2004, Groundwater nutrient loading to Lake Tahoe in a near-shore area with high turbidity and chlorophyll. Desert Research Institute Publication no. 41213, 18 p.
- Thomas, J., T. Mihevc, D. Sada, and E. Sawyer, 2004, Annual data report for geochemical monitoring and interpretation for water budget development for the White River and Meadow Valley Wash regional groundwater flow systems: Desert Research Institute Letter Report, 18 p.
- Acheampong, S.Y., Thomas, J.M. and C.A. Cooper, 2005, Estimation of circulation depths of some low temperature thermal springs in east-central, Nevada. Nevada Water Resources Association 2005 Conference, Reno, Nevada.
- Ayamsegna, J.A., Ampabire, W.B., Thomas, J.M., and A. Lutz, 2005, Groundwater quality assessment, treatment, and monitoring in the Greater Afram Plains and northern region of Ghana. National Groundwater Association, Ground Water Summit, San Antonio, 76-78.
- Deverel, S., Thomas, J., Decker, D., Earman, S., Mihevc, T. and S. Acheampong, 2005, Groundwater evaporation estimates using stable isotope and chloride data, Yelland Playa, Spring Valley, Nevada. Desert Research Institute Publication no. 41219, 16 p.
- Hershey, R.L., Thomas, J.M., Rose, T.P., Paces, J.B., Farnham I.M. and F.C. Benedict Jr., 2005, Evaluation of groundwater movement in the Frenchman Flat CAU using geochemical and isotopic analysis. Desert Research Institute Publication no. 45207, 90 p.
- Jones, T., Thomas, J., Mihevc, T. and M. Gunter, 2005, Evaluation of effectiveness of three types of highway alignment BMPs for sediment and nutrient control. Desert Research Institute Publication no. 41209, 118 p.
- Lutz, A., Thomas, J., Apambire, B., Ayamsegna, J., and A. McKay, 2005, Ground water resource sustainability in a small watershed in northern Ghana. National Groundwater Association, Ground Water Summit San Antonio, 82-84.
- Mihevc, T., Thomas, J., Cooper, C., Powell, R. and J. Larson, 2005, Groundwater nutrient loading to Bridgeport Reservoir. Desert Research Institute Publication no. 41214, 64 p.
- Patterson, G.L. and J.M. Thomas, 2005, Carbon-14 groundwater analysis. Office of Science and Technology International, Annual Report 2005, 183-185.
- Rominger, D., Kozubowski, T.J., Panorska, A.K. and J.M. Thomas, 2005, Antidegradation water quality standards analysis project: Final report. Desert Research Institute Publication no. 41214, 156 p.
- Thomas, J., Deverel, S., Decker, D., Earman, S., Mihevc, T. and S. Acheampong, 2005, Groundwater evaporation from a playa in Spring Valley, Nevada. Transactions. American Geophysical Union, v. 86. no. 52, H33-G-08.
- Winograd, I.J., Fridrich, C.J., Sweetkind, D., Belcher, W.R., and J.M. Thomas, 2005, Comment on "Testing the interbasin flow hypothesis at Death Valley, California". American Geophysical Union, EOS, v. 86, no. 32, 294-297.

- Goddard, K.E., Welch, A.H. and J.M. Thomas, 2006, BARCASS: An integrated, multi-agency hydrogeologic study of east-central Nevada. Nevada Water Resources Association 2006 Conference, February 21-23, Mesquite, Nevada.
- Jasoni, R.L., Cablk, M.E., Thomas, J.M., Decker, D.L., Albright W.H. and Arnone, J.A., 2006, Evapotranspiration in Smoke Creek Desert, Nevada, Desert Research Institute Publication no. 41224, 62 p.
- Heyvaert, A..C., Bachand, P.A.M. and J.M. Thomas, in review, Phosphorus sorption characteristics of soils from selected stormwater infiltration sites in the Lake Tahoe Basin. U.C. Davis publication, 46 p.
- Coats, R., Gunter, M., Heyvaert, A., Thomas, J., Luck, M. and J. Reuter, in review, Water quality, watershed characteristics and land use in the Tahoe Basin, California-Nevada. Journal of American Water Resources Association.
- Lutz, A., Thomas, J., Pohl, G. and A. McKay, in review, Groundwater resource sustainability in the Nabogo Basin of Ghana, West Africa, Journal of Hydrology.