

Selected References Relating to Uranium, Radionuclides, and Methane in the Houston Area and around the U.S.

(See Notes*,**, and*** on Page 20)

From: USGS Open-File Report 93-292-F and other Sources 1945 to 1989

Aiken, M. J., 1981, Mineralogy and geochemistry of a lacustrine uranium occurrence, Andersen Ranch, Brewster County, Texas: Master's thesis, Univ. of Texas, El Paso, unknown p.

Arbingast, S., 1976, Atlas of Texas: Austin, University of Texas.

Bomber, B. J., Ledger, E. B., and Tieh, T. T., 1986, Ore petrography of a sedimentary uranium deposit, Live Oak County, Texas: *Economic Geology*, v. 81, n. 1, p. 131-142.

Campbell, M. D. and K. T. Biddle, 1977, "Frontier Areas and Exploration Techniques - Frontier Uranium Exploration in the South-Central United States," *in Geology of Alternate Energy Resources*, Chapter 1, Published by the Houston Geological Society, pp. 3-44. ([PDF](#))

Cech, I., 1986, Radium and Radon in Harris County: Houston Geological Society Bulletin v.29, no. 4, 11 p.

Cech, I., Prichard, H. M., Mayerson, A. and Lemma, M., 1987, Pattern of distribution of radium-226 in drinking water of Texas: *Water Resources Research*, v. 23, n. 10, p. 1987-1995.

Cech, I., Kreitler, C. W., Prichard, H., Holguin, A., and Lemma, M., 1988, Radon distribution in domestic water of Texas: *Ground Water*, v. 26, n.5, p. 561-569.

Cech, I. Lemma, M., Prichard, H., and Kreitler, C. W., 1987, Radium-226 and radon-222 in domestic water of Houston-Harris County, Texas: *in Graves, Barbara, ed., Radon, radium, and other radioactivity in ground water: Lewis Publishers*, p. 377-402.

Chatham, J. R., 1981, The applications of solution-mineral equilibria concepts in prospecting for sandstone-type uranium deposits: Colorado School of Mines, Golden, CO, USA Doctoral thesis, 177 p.

- Cook, L. M., 1980, The uranium district of the Texas Gulf Coastal Plain, *in* Gesell, T. F. and Lowder, W. M., eds., International symposium on the natural radiation environment, Houston, TX, United States, April 23-28, 1978: Natural radiation environment HI, DOE Symposium Series CONF-780422, v. 2, p. 1602-1622.
- Dahl, H. M. and Callender, C. A., 1985, Mineralogy and geology of Texaco's Hobson uranium deposit, Karnes County, Texas, *in* Hausen, D. M. and Kopp, O. C., eds., Mineralogy; applications to the minerals industry; proceedings of the Paul F. Kerr memorial symposium, New York, NY, Feb. 28, 1985: American Institute Mining, Metallurgy and Petroleum Engineering, Society Mining Engineering, p. 89-102.
- Dale, D. *et al.* 1984 and 1986. Environmental geology - East Harris County, Texas. HGS Field Trip Guidebooks.
- Dickinson, K. A., 1976, Uranium potential of the Texas coastal plain: U. S. Geological Survey Open-File Report 76-0879, 21 p.
- Dickinson, K.A., and J. S. Duval, 1977, Trends Areas and Exploration Techniques: South-Texas Uranium: Geologic Controls, Exploration Techniques, and Potential, *in* *Geology of Alternate Energy Resources*, Chapter 2, Published by the Houston Geological Society, pp. 45-66 ([PDF](#))
- Dickinson, K. A., 1978, Stratigraphy and depositional environments of uranium host rocks in western Karnes County, Texas: U.S. Geological Survey Map MF-1029, scale 1:24,000.
- Duex, T.W., and Henry, C. D., 1981, Calderas and mineralization: volcanic geology and mineralization in the Chinati caldera complex, Trans-Pecos Texas: Austin, Texas : Bureau of Economic Geology Geological Circular 81-2 ,14 p.
- Duval, J. S., Jones, W. J., Riggle, F. R., and Pitkin, J. A., 1989, Equivalent uranium map of the conterminous United States: U.S. Geological Survey Open-File Report 89-478, 10 p.
- Ece, O., 1978, Uranium mineralization in Northwest Bee County, Oakville Formation, Texas coastal region: Master's thesis, Univ. of Texas, Austin, unknown p.
- Etter, E. M. (editor) 1981. Houston area Environmental Geology: Surface Faulting, Ground Subsidence, Hazard Liability, HGS
- Finch, W. I. and Wright, J. C., 1983, Measured stratigraphic sections of uranium-bearing Upper Triassic rocks of the Dockum Basin, eastern New Mexico, West Texas, and the Oklahoma Panhandle, with brief discussion of stratigraphic problems: United States Geological Survey Open-File Report 83-0701, 123 p.

- Finch, W. I., 1975, Uranium in West Texas: United States Geological Survey Open-File Report 75-0356, 20 p.
- Finch, W. I., Wright, J. C., and Sullivan, M. W., 1975, Selected bibliography pertaining to uranium occurrence in eastern New Mexico and West Texas and nearby parts of Colorado, Oklahoma, and Kansas: Report No. PB-241 629/AS (NTIS), 99 p.
- Fouch-Flores, D. L., 1982, Regional uranium resource evaluation using Landsat imagery and NURE geochemical data, southern Trans-Pecos, Texas: Texas Christian Univ. Master's thesis, 69 p.
- Galloway, W. E., 1985, The depositional and hydrogeologic environment of Tertiary uranium deposits, South Texas uranium province, *in* Finch, W. I. and Davis, J. F., eds., Geological environments of sandstone-type uranium deposits, International Atomic Energy Agency TECDOC-328, p. 215-227.
- Galloway, W. E., Finley, R. J., and Henry, C. D., 1979, South Texas uranium province--geologic perspective: Austin, Texas, Bureau of Economic Geology Guidebook 18, 81 p.
- Galloway, W. E., Henry, C. D., and Smith, G. E., 1982, Depositional framework, hydrostratigraphy, and uranium mineralization of the Oakville Sandstone (Miocene), Texas Coastal Plain: Austin, Texas, Bureau of Economic Geology, Report of Investigations no. 113, 51 p.
- Gundersen, L.C.S., Peake, R.T., Latske, G.D., Hauser, L.M. and Wiggs, C.R., 1991, A statistical summary of uranium and radon in soils from the Coastal Plain of Texas, Alabama, and New Jersey, *in* Proceedings of the 1990 Symposium on Radon and Radon Reduction Technology, Vol. 3: Symposium Poster Papers: Research Triangle Park, N.C., U.S. Environmental Protection Agency Rept. EPA600/9-91-026c, p. 6-35--6-47.
- Harrison, S.S., 1985, Contamination of Aquifers by Overpressurizing the Annulus of Oil and Gas Wells, *Ground Water*, Vol. 23, No. 3, pp. 317-324.
- Harrison, S.S., 1986, Low-Cost Apparatus for On-Site Monitoring of Methane in Ground Water, *Ground Water*, Vol. 24, No. 1, pp. 73-76.
- Henry, C. D. and Kapadia, R. R., 1980, Trace elements in soils of the south Texas uranium district: concentrations, origin, and environmental significance: Austin, Texas, Bureau of Economic Geology Report of Investigations no. 101, 52 p.
- Henry, C. D. and Walton, A.W., 1978, Formation of uranium ores by diagenesis of volcanic sediments: final report: United States Dept. of Energy Report GJBX-22 (79), 421 p.

- Norman, Carl E. 1995. Environmental and Engineering Geology of the Houston - Lower Trinity River Area, Texas. HGS Field Trip Guidebook.
- Pingitore, N. E., Schmidt, J. S., and Keller, G. R., 1984, Radiometric traps of the Permian Basin; surface uranium and potassium activity derived from NURE Program, *in* Mazzullo, S. J.(chairperson), Symposium on the geological evolution of the Permian Basin, Midland, TX, United States, April25-26, 1984: SEPM, Permian Basin Section., p. 39-40.
- Podsednik, M., 1990, Geologic assessment of radon-222 in McLennan County, Texas: Baylor Geological Studies Bulletin, no. 50, p. 42.
- Prasse, Eric Martin, 1978, Uranium and its relationship to host rock mineralogy in an unoxidized roll front in the Jackson Group, south Texas: Master's thesis, Texas A&M Univ., unknown p.
- Reimer, G. M., 1985, Gaseous emanations associated with sandstone-type uranium deposits, *in* Finch, W. Land Davis, J. F., eds., Geological environments of sandstone-type uranium deposits, International Atomic Energy Agency TECDOC-328, p. 335-346.
- Renfro, H.B., Feray, D.E., and King, P.B., 1973, Geological Highway Map of Texas: Tulsa, Oklahoma, American Association of Petroleum Geologists United States Geological Highway Map Series No.7, 1 sheet.
- Rose, A.W., Ciolkosz, E.J., and Washington, J.W., 1991, Effects of regional and seasonal variations in soil moisture and temperature on soil gas radon, *in* The 1990 International Symposium on Radon and Radon Reduction Technology, Proceedings, Vol. 3: Symposium Poster Papers: Research Triangle Park, N.C., U.S. Environmental Protection Agency Rept EPA600/9-91-026c, p. 6-49--6-60.
- Rose, N.A., and W.H. Alexander, 1945, "Relation of Phenomenal Rise of Water Levels to a Defective Gas Well, Harris County, Texas," AAPG Bull., Vol.29, No. 3, pp. 253-279 ([PDF](#))
- Schaftenaar, W. E. and Tieh, T. T., 1983, Uranium in igneous rocks of central Davis Mountains, West Texas: American Association of Petroleum Geologists Bulletin, v. 67, p. 545.
- Sheets, M. M., 1976. Subsidence and Active Surface Faulting in the Houston Vicinity. HGS Field Trip Guidebook.
- Sheets, M. M. 1979. Oil fields and Their Relation to Subsidence and Active Surface Faulting in the Houston Area. HGS Field Trip Guidebook.

- Tewalt, S. J. and Jones, C. M., 1986, Chemical and petrologic characteristics of deep-subsurface Wilcox lignites (Eocene) from east and east-central Texas, *in* Garbini, S. and Schweinfurth, S. P., eds., Symposium proceedings; A national agenda for coal-quality research, Reston, VA, April 9-11, 1985: U.S. Geological Survey Circular 979, p. 257.
- Thomann, W. F., Pyron, A. J. and Ray, D. R., 1985, Distribution of uranium, thorium and potassium in Proterozoic igneous rocks, Franklin Mountains, West Texas, *in* Sibbald, T. I. Land Petruk, W., eds., Geology of uranium deposits, Canadian Institute of Mining and Metallurgy Special Volume 32, p.195-201.
- Travis, Steven L., 1981, Uranium mineralization in Jim Wells County, Texas: Master's thesis, Wichita State University., 50 p.
- Wanty, R. B. and Gundersen, L.C.S., 1987, Factors affecting radon concentrations in ground water; evidence from sandstone and crystalline aquifers: Geological Society of America, Abstracts with Programs, v. 19, no. 2, p. 135.
- Woodrome, Larry S., 1980, Uranium; Trans-Pecos, Texas Tertiary intrusive and groundwater anomalies: Master's thesis, University of Texas, El Paso, unknown p.

From: USGS 2010-2011 Harris County Report and other Sources: 1968 to 2010

- American Public Health Association, American Water Works, Association, and Water Pollution Control Federation, 2005, Standard methods for the examination of water and Wastewater (21st ed Washington, D.C., American Public Health Association, [variously paged].
- ASTM International, 2006a, D1193–06, Standard specification for reagent water: ASTM International, accessed November 17, 2009, at <http://www.astm.org/Standards/D1193.htm>.
- ASTM International, 2006b, D5072–98, Standard test method for radon in drinking water: ASTM International, accessed August 20, 2008, at <http://www.astm.org>.
- Baker, E.T., Jr., 1979, Stratigraphic and hydrogeologic framework of part of the Coastal Plain of Texas: TX Department of Water Resources Report 236, 43 p.
- CHEMetrics, 2008, Operator's Manual V-2000 Photometer (Rev. 7), 21 p.

- Childress, C.J.O., Foreman, W.T., Connor, B.F., and Maloney, T.J., 1999, New reporting procedures based on long-term method detection levels and some considerations for interpretations of water-quality data provided by the U.S. Geological Survey National Water Quality Laboratory: U.S. Geological Survey Open-File Report 99-193, 19 p.
- Chowdhury, A.H., Boghici, Radu, and Hopkins, Janie, 2006, Hydrochemistry, salinity distribution, and trace constituents - Implications for salinity sources, geochemical evolution, and flow systems characterization, Gulf Coast aquifer, Texas, *in* Mace, R.E., Davidson, S.C., Angle, E.S., and Mullican, W.F., eds., *Aquifers of the Gulf Coast of Texas: Texas Water Development Board Report* 365, p. 81-128.
- Coplen, T.B., 1993, Uses of environmental isotopes, *in* Alley, W.M., ed., *Regional ground-water quality: New York*, Van Nostrand Reinhold, p. 227-254.
- Currie, L.A., 1968, Limits for qualitative detection and quantitative determination - Application to radiochemistry: *Analytical Chemistry*, v. 20, p. 586-593.
- DeSimone, L.A., 2009, Quality of water from domestic wells in principal aquifers of the United States, 1991-2004: U.S. Geological Survey Scientific Investigations Report 2008-5227, 139 p., accessed September 25, 2010, at <http://pubs.usgs.gov/sir/2008/5227>.
- Faires, L.M., 1993, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory - Determination of metals in water by inductively coupled plasma-mass spectrometry: U.S. Geological Survey Open-File Report 92-634, 28 p.
- Fishman, M.J., ed., 1993, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory - Determination of inorganic and organic constituents in water and fluvial sediments: U.S. Geological Survey Open-File Report 93-125, 217 p.
- Focazio, M.J., Welch, A.H., Watkins, S.A., Helsel, D.R., and Horn, M.A., 2000, A retrospective analysis on the occurrence of arsenic in ground-water resources of the United States and limitations in drinking-water-supply characterizations: U.S. Geological Survey Water-Resources Investigations Report 99-4279, 21 p.
- Focazio, M.J., Szabo, Zoltan, Kraemer, T.F., Mullin, A.H., Barringer, T.H., and dePaul, V.T., 2001, Occurrence of selected radionuclides in ground water used for drinking water in the United States - A reconnaissance survey, 1998: U.S. Geological Survey Water-Resources Investigations Report 00-4273, 39 p.

- Garbarino, J.R., 1999, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory - Determination of dissolved arsenic, boron, lithium, selenium, strontium, thallium, and vanadium using inductively coupled plasma-mass spectrometry: U.S. Geol. Survey Open-File Report 99-093, 31 p.
- Garbarino, J.R., Kanagy, L.K., and Cree, M.E., 2006, Determination of elements in natural-water, biota, sediment and soil samples using collision/reaction cell inductively coupled plasma-mass spectrometry: U.S. Geological Survey Techniques and Methods, book 5, sec. B, chap. 1, 88 p.
- Hall, F.R., Donahue, P.M., and Eldridge, A.L., 1985, Radon gas in ground water in New Hampshire: National Water Well Association Proceedings of the Second Annual Eastern Regional Ground Water Conference, Worthington, Ohio, p.86-100.
- Hansen, H.J., 1971, Transmissivity tracts in the Coastal Plain aquifers of Maryland: Southeastern Geology, v. 13, p. 127–149.
- Hem, H.D., 1992, Study and interpretation of the chemical characteristics of natural water: U.S. Geological Survey Water-Supply Paper 2254, 264 p.
- Hinkle, S.R., 2010, Age of groundwater: Water Encyclopedia, accessed August 9, 2010, at <http://www.waterencyclopedia.com/Ge-Hy/Groundwater-Age-of.html>.
- Hopple, J.A., Delzer, G.C., and Kingsbury, J.A., 2009, Anthropogenic organic compounds in source water of selected community water systems that use groundwater, 2002–05: U.S. Geological Survey Scientific Investigations Report 2009–5200, 74 p.
- Horowitz, A.J., Lum, K.R., Garbarino, J.R., Hall, G.E.M., LeMieux, C., and Demas, C.R., 1996, Problems associated with using filtration to define dissolved trace element concentrations in natural water samples: Environmental Science Technology, v. 30, no. 3, p. 954–963.
- Kasmarek, M.C., Johnson, M.R., and Ramage, J. R., 2010, Water-level altitudes 2010 and water-level changes in the Chicot, Evangeline, and Jasper aquifers and compaction 1973–2009 in the Chicot and Evangeline Aquifers, Houston-Galveston region, Texas: U.S. Geological Survey Scientific Investigations Map 3138, 17 p., 16 sheets
- Lewis, M.E., June 2006, Dissolved oxygen (version 2.1): U.S. Geological Survey Techniques of Water-Resources Investigations, book 9, chap. A6, sec. 6.2, accessed August 20, 2008, at <http://pubs.water.usgs.gov/twri9A6/>.

- McCurdy, D.E., Garbarino, J.R., and Mullin, A.H., 2008, Interpreting and reporting radiological water-quality data: U.S. Geological Survey Techniques and Methods, book 5, chap. B6, 33 p.
- Michel, T.A., 2006, 100 years of groundwater use and subsidence in the upper Texas Gulf Coast, *in* Mace, R.E., Davidson, S.C., Angle, E.S., and Mullican, W.F., eds., *Aquifers of the Gulf Coast of Texas: Texas Water Development Board Report 365*, chap. 7, p. 139–148.
- National Research Council, 1999, *Arsenic in drinking water*: Washington, D.C., National Academy Press, 273 p.
- Oden, J.H., Oden, T.O., and Szabo, Zoltan, 2010, Groundwater quality of the Gulf Coast aquifer system, Houston, Texas, 2007–08: U.S. Geol. Survey Data Series 548, 65 p.
- Pankow, J.F., 1991, *Aquatic chemistry concepts*: Chelsea, Mich., Lewis Publishers, 683 p.
- Parsa, Bahman, 1998, Contribution of short-lived radionuclides to alpha-particle radioactivity in drinking water and their impact on the Safe Drinking Water Act Regulations: *Radioactivity and Radiochemistry*, v. 9, no. 4, p. 41–50.
- Renken, R.A., 1998, Ground water atlas of the United States - Segment 5, Arkansas, Louisiana, and Mississippi: U.S. Geological Survey Hydrologic Atlas 730–F, accessed August 20, 2008, at http://capp.water.usgs.gov/gwa/ch_f/F-text3.html.
- Rounds, S.A., 2006, Alkalinity and acid neutralizing capacity (version 3.0): U.S. Geological Survey Techniques of Water Resources Investigations, book 9, chap. A6., section 6.6, accessed February 11, 2011, at <http://pubs.water.usgs.gov/twri9A6/>.
- Ryder, P.D., 1996, Ground water atlas of the United States: Segment 4, Oklahoma, Texas: U.S. Geological Survey Hydrologic Atlas 730–E, accessed August 20, 2008, at http://capp.water.usgs.gov/gwa/ch_e/E-text6.html.
- Ryder, P.D., and Ardis, A.F., 2002, Hydrology of the Texas Gulf Coast aquifer systems: U.S. Geological Survey Professional Paper 1416–E, 77 p.
- Ryker, S.J., 2003, Arsenic in ground water used for drinking water in the United States, *in* Welch, A.H., and Stollenwerk, K.G., eds., *Arsenic in ground water geochemistry and occurrence*: Amsterdam, Kluwer Academic Publishers, p. 165–178.
- Sugarman, P.J., and Miller, K.G., 1997, Correlation of Miocene sequences and hydrogeologic units, New Jersey Coastal Plain: *Sedimentary Geology*, v. 108, p. 3–18.

- Szabo, Zoltan, and dePaul, V.T., 1998, Radium-226 and radium-228 in shallow ground water, southern New Jersey: U.S. Geological Survey Fact Sheet FS-062-98, 6 p.
- Szabo, Zoltan, dePaul, V.T., and Parsa, Bahman, 1998, Decrease in gross alpha-particle activity in water samples with time after collection from the Kirkwood-Cohansey aquifer system in southern New Jersey: Implications for drinking water regulations: 63rd annual meeting, American Water Works Association, New Jersey section, Atlantic City, N.J., March 26-27, 1998 [abs.].
- Szabo, Zoltan, dePaul, V.T., Kraemer, T.F., and Parsa, Bahman, 2005, Occurrence of radium-224, radium-226, and radium-228 in water of the unconfined Kirkwood-Cohansey aquifer system, southern New Jersey: U.S. Geological Survey Scientific Investigations Report 2004-5224, 84 p.
- Texas State Data Center, 2010, Estimates of the total population of counties and places in Texas for July 1, 2009 and January 1, 2010: Texas Population Estimates and Projections Program, accessed February 11, 2011, at http://txsdc.utsa.edu/tpepp/2009_txpopest_msa.php.
- Toccalino, P.L., Norman, J.E., and Hitt, K.J., 2010, Quality of source water from public-supply wells in the United States, 1993-2007: U.S. Geological Survey Scientific Investigations Report 2010-5024, 209 p.
- Troyer, G.L., Jones, R.A., and Jensen, Louis, 1991, The utility of reporting negative counting values: Radioactivity and Radiochemistry, v. 2, no. 1, p. 48-56.
- University of Arizona, 2010, Accelerator mass spectrometry laboratory, basic principles of radiocarbon dating: accessed September 15, 2010, at <http://www.physics.arizona.edu/ams/education/theory.htm>.
- U.S. Environmental Protection Agency, 1997, National primary drinking water regulations - Analytical methods for radionuclides: Federal Register, v. 62, no. 43, pp.10168-10175.
- U.S. Environmental Protection Agency, 1999, National primary drinking water regulations - Radon-222; Proposed Rule 40 CFR Parts 141 and 142: Washington D.C., Federal Register, v. 64, no. 211, p. 59,245-59,294.
- U.S. Environmental Protection Agency, 2000, National primary drinking water regulations -Radionuclides; Final Rule 40 CFR Parts 9, 141, and 142: Washington, D.C., Federal Register, v. 65, no. 236, p. 76,708-76,753.

- U.S. Environmental Protection Agency, 2001, National primary drinking water regulations -Arsenic and clarification to compliance and new source contaminants monitoring; Final Rule 40 CFR Parts 141 and 142: Washington, D.C., Federal Register, v. 66, no. 14, p. 6,975–7,066.
- U.S. Environmental Protection Agency, 2004, Understanding the safe drinking water act: U.S. Environmental Protection Agency, Office of Water EPA 816-F-04-030, June 2004, 4 p. Available at http://water.epa.gov/lawsregs/guidance/sdwa/upload/2009_08_28_sdwa_fs_30ann_sdwa_web.pdf
- U.S. Environmental Protection Agency, 2008, Analytical methods approved for drinking water compliance monitoring of radionuclides: accessed August 20, 2008, at http://www.epa.gov/safewater/methods/pdfs/methods/methods_radionuclides.pdf.
- U.S. Environmental Protection Agency, 2011, Drinking Water Contaminants, National Primary Drinking Water Regulations: accessed February, 2011, at <http://water.epa.gov/drink/contaminants/index.cfm>.
- U.S. Geological Survey, 2009, User's manual for the National Water Information System of the U.S. Geological Survey-Water-quality system (version 4.9): accessed November18, 2009, at http://nwis.usgs.gov/nwisdocs4_9/qw/QW.user.book.html.
- U.S. Geological Survey, 2010a, National Water Quality Laboratory - Quality: accessed August 25, 2010, at <http://nwql.usgs.gov/Public/quality.shtml>.
- U.S. Geological Survey, 2010b, Office of Water Quality Technical Memorandum 2010.07: accessed January 26, 2011, at <http://water.usgs.gov/admin/memo/QW/qw10.07.html>.
- U.S. Geological Survey, variously dated, National field manual for the collection of water-quality data: U.S. Geological Survey Techniques of Water-Resources Investigations, book 9, chaps. A1–A9, accessed September 27, 2010, at <http://pubs.water.usgs.gov/twri9A>.
- Welch, A.H., Westjohn, D.B., Helsel, D.R., and Wanty, R.B., 2000, Arsenic in ground water of the United States–Occurrence and geochemistry: Ground Water, v. 38, no. 4, p. 589–604
- Wilde, F.D., 2008, General information and guidelines (version 2.0): U.S. Geological Survey Techniques of Water Resources Investigations, book 9, chap. A6., section 6.0, accessed February 11, 2011, at <http://pubs.water.usgs.gov/twri9A6/>.

Zapeczka, O.S., and Szabo, Zoltan, 1988, Natural radioactivity in ground water - A review, *in* National Water Summary 1986 - Groundwater quality: Hydrologic conditions and events: U.S. Geological Survey Water-Supply Paper 2325, p. 50–57.

From: USGS 2007-2008 Harris County Report & other Sources: 1962-2013

Abernathy, R.L.C., and Chappell, W.R., eds., 1997, Arsenic - Exposure and health effects: London, Chapman Hall, 429 p.

Ambrose, W. A., 2007, “Depositional Systems of Uranium in South Texas,” Proc. Gulf Coast Geological Societies Conference, Fall, Corpus Christi, Texas, 12 p.
<http://www.mdcampbell.com/AMBROSEGCA07.pdf>

American Public Health Association, American Water Works Association, and Water Pollution Control Federation, 2005, Standard methods for the examination of water and waste- water (21st ed.): Washington, D.C., American Public Health Association, [variously paged].

ASTM International, 2006a, D1193–06, Standard specification for reagent water: ASTM International, accessed November 17, 2009, <http://www.astm.org/Standards/D1193.htm>.

ASTM International, 2006b, D5072–98, Standard test method for radon in drinking water: ASTM International, accessed August 20, 2008, at <http://www.astm.org>.

Baker, E.T., Jr., 1979, Stratigraphic and hydrogeologic frame-work of part of the Coastal Plain of Texas: Texas Department of Water Resources Report 236, 43 p.

Beck, H.L., and Bennett, B.G., 2002, Historical overview of atmospheric nuclear weapons testing and estimates of fall-out in the continental United States: Health Physics, v. 82, no. 5, p. 591–608.

Brenton, R.W., and Arnett, T.L., 1993, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory - Determination of dissolved organic carbon by UV-promoted persulfate oxidation and infrared spectrometry: U.S. Geological Survey Open-File Report 92–480, 12 p.

Campbell, M. D., H. M. Wise, and J. Evensen, 2005, Recent uranium industry developments, exploration, mining and environmental programs in the U.S. and overseas: AAPG Energy Minerals Division, Uranium Committee Report for 2005, March 25, 2005, 22 p., (accessed July 23, 2008).

- Campbell, M. D., H. M. Wise, J. Evensen, B. Handley, and J. Conca, 2007, Nuclear power: Winds of change: AAPG Energy Minerals Division, Report of the Uranium Committee, March 31, 2007:
<http://www.mdcampbell.com/EMDUraniumCommittee Report033107FINAL.pdf>
(accessed July 26, 2008).
- Campbell, M. D., J. D. King, H. M. Wise, R. I. Ruffin, and B. Handley, 2008, The nature and extent of uranium reserves and resources and their environmental development in the U.S. and overseas: Conference of the AAPG Energy Minerals Division, San Antonio, Texas, April 23, 2008, 14 p.:
<http://www.mdcampbell.com/AAPGEMDSanAntonio2008Final.pdf> (accessed July 26, 2008).
- Campbell, M. D. and H. M. Wise, 2010, "Uranium Recovery Realities in the U.S. - A Review," Invited Presentation for the Dinner Meeting of the Houston Geological Society's Engineering and Environmental Group, May 18, Houston, Texas, 51 p. ([Click here](#)), Abstract ([Here](#)).
- CHEMetrics, 2008, Operator's manual V-2000 photometer (Rev. 7): CHEMetrics Inc., 21 p.
- Childress, C.J.O., Foreman, W.T., Connor, B.F., and Maloney, T.J., 1999, New reporting procedures based on longterm method detection levels and some considerations for interpretations of water-quality data provided by the U.S. Geological Survey National Water Quality Laboratory: U.S. Geological Survey Open-File Report 99-193, 19 p.
- Chowdhury, A.H., Boghici, Radu, and Hopkins, Janie, 2006, Hydrochemistry, salinity distribution, and trace constituents - Implications for salinity sources, geochemical evolution, and flow systems characterization, Gulf Coast aquifer, Texas, in Mace, R.E., Davidson, S.C., Angle, E.S., and Mullican, W.F., eds., Aquifers of the Gulf Coast of Texas: Texas Water Development Board Report 365, p. 81-128.
- Cook, P.G., and Böhlke, J.K., 1999, Determining timescales for groundwater flow and solute transport, in Cook, P.G., and Herczeg, A., eds., Environmental tracers in subsurface hydrology, chap. 1: Amsterdam, Kluwer Academic Press, p. 1-30.
- Coplen, T.B., 1993, Uses of environmental isotopes, in Alley, W.M., ed., Regional ground-water quality: New York, Van Nostrand Reinhold, p. 227-254.
- Currie, L.A., 1968, Limits for qualitative detection and quantitative determination - Application to radiochemistry: Analytical Chemistry, v. 20, p. 586-593.

- DeSimone, L.A., 2009, Quality of water from domestic wells in principal aquifers of the United States, 1991–2004: U.S. Geological Survey Scientific Investigations Report 2008 - 5227, 139 p., accessed September 25, 2010, at <http://pubs.usgs.gov/sir/2008/5227>.
- Faires, L.M., 1993, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory - Determination of metals in water by inductively coupled plasma-mass spectrometry: U.S. Geological Survey Open-File Report 92–634, 28 p.
- Fishman, M.J., ed., 1993, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory - Determination of inorganic and organic constituents in water and fluvial sediments: U.S. Geological Survey Open- File Report 93–125, 217 p.
- Fishman, M.J., and Friedman, L.C., 1989, Methods for determination of inorganic substances in water and fluvial sediments: U.S. Geological Survey Techniques of Water- Resources Investigations, book 5, chap. A1, 545 p., Method ID: I–3561–89.
- Focazio, M.J., Welch, A.H., Watkins, S.A., Helsel, D.R., and Horn, M.A., 2000, A retrospective analysis on the occurrence of arsenic in ground-water resources of the United States and limitations in drinking-water-supply characterizations: U.S. Geological Survey Water-Resources Investigation Report 99–4279, 21 p.
- Focazio, M.J., Szabo, Zoltan, Kraemer, T.F., Mullin, A.H., Barringer, T.H., and dePaul, V.T., 2001, Occurrence of selected radionuclides in ground water used for drinking water in the United States - A reconnaissance survey, 1998: U.S. Geological Survey Water-Resources Investigation Report 00–4273, 39 p.
- Garbarino, J.R., 1999, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory - Determination of dissolved arsenic, boron, lithium, selenium, strontium, thallium, and vanadium using inductively coupled plasma-mass spectrometry: U.S. Geological Survey Open-File Report 99–093, 31 p.
- Garbarino, J.R., Bednar, A.J., and Burkhardt, M.R., 2002, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory - Arsenic speciation in natural- water samples using laboratory and field methods: U.S. Geological Survey Water-Resources Investigations Report 02–4144, 40 p.
- Garbarino, J.R., Kanagy, L.K., and Cree, M.E., 2006, Determination of elements in natural-water, biota, sediment and soil samples using collision/reaction cell inductively coupled plasma-mass spectrometry: U.S. Geological Survey Techniques and Methods, book 5, sec. B, chap.1, 88 p.

- Gibs, Jacob, Szabo, Zoltan, Ivahnenko, Tamara, and Wilde, F.D., 2000, Change in field turbidity and trace element concentrations during well purging: *Ground Water*, v. 38, no. 4, p. 577–588.
- Hach Company, 2007, Sulfide, method 8131: DR 2800 Spectrophotometer Procedures Manual Edition 2, p. 757–760.
- Hansen, H.J., 1971, Transmissivity tracts in the coastal plain aquifers of Maryland: *Southeastern Geology*, v. 13, p. 127–149.
- Hem, H.D., 1992, Study and Interpretation of the chemical characteristics of natural water: U.S. Geological Survey Water-Supply Paper 2254, 264 p.
- Hinkle, S.R., 2010, Age of groundwater: *Water Encyclopedia*, accessed August 9, 2010, at <http://www.waterencyclopedia.com/Ge-Hy/Groundwater-Age-of.html>
- Horowitz, A.J., Lum, K.R., Garbarino, J.R., Hall, G.E.M., LeMieux, C., and Demas, C.R., 1996, Problems associated with using filtration to define dissolved trace element concentrations in natural water samples: *Environmental Science Technology*, v. 30, no. 3, p. 954–963.
- Ivahnenko, Tamara, Szabo, Zoltan, and Hall, G.S., 1996, Use of an ultra-clean sampling technique with inductively coupled plasma-mass spectrometry to determine trace- element concentrations in water from the Kirkwood- Cohansey aquifer system, Coastal Plain, New Jersey: U.S. Geological Survey Open-File Report 96–142, 37 p.
- Kasmarek, M.C., Houston, N.A., and Ramage, J.K., 2009, Water-level altitudes 2009 and water-level changes in the Chicot, Evangeline, and Jasper aquifers and compaction 1973–2008 in the Chicot and Evangeline aquifers, Houston-Galveston region, Texas: U.S. Geological Survey Scientific Investigations Map 3081, 3 p., 16 sheets, 2 appendixes.
- Lewis, M.E., June 2006, Dissolved oxygen (version 2.1): U.S. Geological Survey Techniques of Water-Resources Investigations, book 9, chap. A6, sec. 6.2, accessed August 20, 2008, at <http://pubs.water.usgs.gov/twri9A6/>.
- Maloney, T.J., ed., 2005, Quality management system, U.S. Geological Survey National Water Quality Laboratory: U.S. Geological Survey Open-File Report 2005–1263, version 1.3, chapters and appendixes variously paged.
- McCurdy, D.E., Garbarino, J.R., and Mullin, A.H., 2008, Interpreting and reporting radiological water-quality data: U.S. Geological Survey Techniques and Methods, book 5, chap. B6, 33 p.

- Michel, T.A., 2006, 100 Years of groundwater use and subsidence in the upper Texas Gulf Coast, in Mace, R.E., Davidson, S.C., Angle, E.S., and Mullican, W.F., eds., *Aquifers of the Gulf Coast of Texas: Texas Water Development Board Report 365*, chap. 7, p. 139–148.
- National Research Council, 1999, *Arsenic in drinking water*: Washington, D.C., National Academy Press, 273 p.
- Ostlund, H.G., and Warner, E., 1962, Electrolytic enrichment of tritium and deuterium for natural tritium measurements, in *Tritium in the physical and biological sciences*: Vienna, Austria, International Atomic Energy Agency, v. 1, p. 96–104.
- Pankow, J.F., 1991, *Aquatic chemistry concepts (Translation)*: Chelsea, Mich., Lewis Publishers, 683 p.
- Parsa, Bahman, 1998, Contribution of short-lived radionuclides to alpha-particle radioactivity in drinking water and their impact on the Safe Drinking Water Act Regulations: *Radioactivity and Radiochemistry*, v. 9, no. 4, p. 41–50.
- Renken, R.A., 1998, Ground water atlas of the United States - Segment 5, Arkansas, Louisiana, and Mississippi: U.S. Geological Survey Hydrologic Atlas 730–F, accessed August 20, 2008, at http://capp.water.usgs.gov/gwa/ch_f/F-text3.html.
- Ryder, P.D., 1996, Ground water atlas of the United States: Segment 4, Oklahoma, Texas: U.S. Geological Survey Hydrologic Atlas 730–E, accessed August 20, 2008, at http://capp.water.usgs.gov/gwa/ch_e/E-text6.html.
- Ryder, P.D. and Ardis, A.F., 2002, Hydrology of the Texas Gulf Coast aquifer systems: U.S. Geological Survey Professional Paper 1416–E, 77 p.
- Ryker, S.J., 2003, Arsenic in ground water used for drinking water in the United States, in Welch, A.H., and Stollenwerk, K.G., eds., *Arsenic in ground water geochemistry and occurrence*: Amsterdam, Kluwer Academic Publishers, p. 165–178.
- Smedley, P.L., and Kinniburgh, D.G., 2002, A review of the source, behavior and distribution of As in natural waters: *Applied Geochemistry*, v. 17, p. 517–568.
- Sugarman, P.J., and Miller, K.G., 1997, Correlation of Miocene sequences and hydrogeologic units, New Jersey Coastal Plain: *Sedimentary Geology*, v. 108, p. 3–18.

- Szabo, Zoltan, dePaul, V.T., Kraemer, T.F., and Parsa, Bahman, 2005, Occurrence of radium-224, radium-226, and radium-228 in water of the unconfined Kirkwood-Cohansey aquifer system, southern New Jersey: U.S. Geological Survey Scientific Investigations Report 2004-5224, 84 p. (Also available at <http://pubs.usgs.gov/sir/2004/5224>.)
- Texas State Data Center, 2007, Estimates of the total population of counties and places in Texas for July 1, 2006 and January 1, 2007: Texas Population Estimates and Projections Program, accessed February 14, 2008, at http://txsdc.utsa.edu/tpepp/2006_txpopest_msa.php.
- Troyer, G.L., Jones, R.A., and Jensen, Louis, 1991, The utility of reporting negative counting values: Radioactivity and Radiochemistry, v. 2, no. 1, p. 48-56.
- University of Arizona, 2010, Accelerator mass spectrometry laboratory, basic principles of radiocarbon dating: accessed September 15, 2010, at <http://www.physics.arizona.edu/ams/education/theory.htm>.
- U.S. Environmental Protection Agency, 1997, National primary drinking water regulations - Analytical methods for radionuclides: Federal Register, v. 62, no. 43, p. 10,168-10,175.
- U.S. Environmental Protection Agency, 1999, National primary drinking water regulations -Radon-222; Proposed Rule 40 CFR Parts 141 and 142: Washington D.C., Federal Register, v. 64, no. 211, p. 59,245-59,294.
- U.S. Environmental Protection Agency, 2000, National primary drinking water regulations -Radionuclides; Final Rule 40 CFR Parts 9, 141, and 142: Washington, D.C., Federal Register, v. 65, no. 236, p. 76,708-76,753.
- U.S. Environmental Protection Agency, 2001, National primary drinking water regulations - Arsenic and clarification to compliance and new source contaminants monitoring; Final Rule 40 CFR Parts 141 and 142: Washington, D.C., Federal Register, v. 66, no. 14, p. 6,975-7,066.
- U.S. Environmental Protection Agency, 2008, Analytical methods approved for drinking water compliance monitoring of radionuclides: accessed August 20, 2008, at http://www.epa.gov/safewater/methods/pdfs/methods/methods_radionuclides.pdf
- U.S. Environmental Protection Agency, 2010, Radionuclides in drinking water rule: accessed August 27, 2010, at <http://www.epa.gov/safewater/radionuclides/regulation.html>.

- U.S. Geological Survey, 2009, User's manual for the National Water Information System of the U.S. Geological Survey - Water-quality system (version 4.9): accessed November 18, 2009, at http://nwis.usgs.gov/nwisdocs4_9/qw/QW.user.book.html.
- U.S. Geological Survey, 2010a, National Water Quality Laboratory - Calculation of matrix spike recovery: accessed August 26, 2010, at <http://wwwnwql.cr.usgs.gov/dyn.shtml?SpikeCalc>.
- U.S. Geological Survey, 2010b, National Water Quality Laboratory - Quality: accessed August 25, 2010, at <http://nwql.usgs.gov/Public/quality.shtml>.
- U.S. Geological Survey, variously dated, National field manual for the collection of water-quality data: U.S. Geological Survey Techniques of Water-Resources Investigations, book 9, chaps. A1–A9, accessed September 27, 2010, at <http://pubs.water.usgs.gov/twri9A>.
- Welch, A.H., Westjohn, D.B., Helsel, D.R., and Wanty, R.B., 2000, Arsenic in ground water of the United States - Occurrence and geochemistry: *Ground Water*, v. 38, no. 4, pp. 589–604
- Wilde, F.D., and Radtke, D.B., 2005, General information and guidelines (version 1.2): U.S. Geological Survey Techniques of Water-Resources Investigations, book 9, chap. A6., section 6.0, accessed August 20, 2008, at <http://pubs.water.usgs.gov/twri9A6/>

From U. S. Geological Survey Open File Report 2012-1162 and Recent Sources

- Baldassare, F.J., and C.D. Laughrey, 1997, "Identifying the Sources of Stray Methane by Using Geochemical and Isotopic Fingerprinting," *Environmental Geosciences*, Vol. 4, No. 2, pages 85–94, March.
- Brown, F.L., Jr., R.G. Loucks, R.H. Trevino, and U. Hammes, 2004, "Understanding growth-faulted, intraslope subbasins by applying sequence-stratigraphic principles: Examples from the south Texas Oligocene Frio Formation," *AAPG Bulletin*, v. 88, no. 11 (November 2004), pp. 1501 –1522 1501, Accessed Internet April 12, 2013 via: http://www.beg.utexas.edu/starr/PDF/Brown/Brown%20et%20al._AAPG%202004.pdf
- Busenberg, E., and Plummer, L.N., 2000, Dating young ground water with sulfur hexafluoride—Natural and anthropogenic sources of sulfur hexafluoride: *Water Resources Research*, v. 36, p. 3011–3030.

- Campbell, M.D., M. David Campbell, and Mustafa Saribudak, 2004, "Growth Faulting, Associated Geologic Hazards, Economic & Regulatory Impact, and Methods of Investigation for the Houston, Texas Area," GSA / AEG-Tx, Growth Fault Symposium Texas A&M University, College Station, Tx, March 16, 2004, 83 slides.
- Chowdhury, A. H., and M.J. Turco, 2008, Geology of the Gulf Coast Aquifer, Texas, Chapter 2, pp. 23-50 ([PDF](#))
- Eltschlager, K.K., Hawkins, J.W., Ehler, W.C., and Baldassare, Fred, 2001, Technical measures for the investigation and mitigation of fugitive methane hazards in areas of coal mining: U.S. Department of the Interior, Office of Surface Mining Reclamation and Enforcement, 125 p., at <http://www.techtransfer.osmre.gov/NTTMainSite/Library/hbmanual/methane/methane.pdf>.
- Engekermeir, R., et al., 2010, "Surface Deformation in Houston, Texas using GPS," Tectonophysics, Vol. 490, pp. 47-54 ([PDF](#))
- Gagliano, S., Kemp III, E.B., Wicker, K., and K. Wiltenmuth, 2003, Active Geological Faults and Land Change in Southeastern Louisiana, Study for U.S. Army Corps of Engineers, 204 p.
- Hammes, U., 2006, "Fault Compartmentalization of Stacked Sandstone Reservoirs in Growth-Faulted Subbasins: Oligocene Frio Formation, Red Fish Bay Area, South Texas," GCAGS Transactions, Vol. 54, pp. 237-246, Accessed Internet April 12, 2013, ([PDF](#))
- Heltz, J.O., 2005, "Evidence of Neotectonic Activity in Southwestern Louisiana," Thesis for Master of Science in Geology, Louisiana State University, Baton Rouge, August, 80 p. ([PDF](#))
- Hill, D.G., Lombardi, T.E., and Martin, J.P., 2003, Fractured shale gas potential in New York, accessed December 2011, at http://www.pe.tamu.edu/wattenbarger/public_html/Selected_papers/--Shale_Gas/fractured_shale_gas_potential_in_new_york.pdf .
- Kappel, W.M., and E.A. Nystrom, 2012, Dissolved Methane in New York Groundwater, U.S. Geological Survey Open File Report 2012-1162, 7 p. at: <http://ny.water.usgs.gov>
- Johnson, C.A., 2001, Geochemical constraints on the origin of the Sterling Hill and Franklin zinc deposits, and the Furnace Magnetite Bed, northwestern New Jersey: Society of Economic Geologists Guidebook Series, v. 35, p. 89-97. Also see: <https://profile.usgs.gov/cjohnso/>

- Komor, S.C., 2002, Groundwater age dating in community wells in Oswego County, New York: U.S. Geological Survey Open-File Report 01–032, 16 p., at <http://ny.water.usgs.gov/pubs/of/of01232/>.
- Molofsky, L., Connor, J., Wylie, A., and Wagner, T., 2011, Methane in Pennsylvania water wells unrelated to Marcellus shale fracturing: *Oil and Gas Journal*, v. 109, no. 49, 12 p. at <http://www.ogj.com/1/vol-109/issue-49/exploration-development/methane-in-pennsylvania-water-full.html>.
- Nystrom, E.A., 2011, Groundwater quality in the Lake Champlain Basin, New York, 2009: U.S. Geological Survey Open-File Report 2011–1180, 42 p., at <http://pubs.usgs.gov/of/2011/1180/>.
- Nystrom, E.A., 2012, Groundwater quality in the Delaware and St. Lawrence River Basins, New York, 2010: U.S. Geological Survey Open-File Report 2011–1320, 58 p., at <http://pubs.usgs.gov/of/2011/1320/>.
- Osborn, S.G., Avner, Vengosh, Warner, N.R., and Jackson, R.B., 2011, Methane contamination of drinking water accompanying gas-well drilling and hydraulic fracturing: *Proceedings of the National Academy of Sciences*, 5 p., at www.pnas.org/cgi/doi/10.1073/pnas.1100682108.
- Plummer, L.N., Busenberg, E., and Böhlke, J.K., among authors of the International Atomic Energy Agency (IAEA), 2006, Use of chlorofluorocarbons in hydrology—A guidebook, STI/ PUB/1238, 277 p., 111 figs.
- Reddy, J.E., and Risen, A.J., 2012, Groundwater quality in the Upper Susquehanna River Basin, New York, 2009: U.S. Geological Survey Open-File Report 2012–1045, 29 p., at <http://pubs.usgs.gov/of/2012/1045/>.
- Schruben, P.G., Arndt, R.E., Bawiec, W.J., King, P.B., and Beikman, H.M., 1994, Geology of the conterminous United States at 1:2,500,000 scale—A digital representation of the 1974 P.B. King and H.M. Beikman Map: U.S. Geological Survey Digital Data Series DDS–11.
- Solomon, D.K., Schiff, S.L., Poreda, R.J., and Clarke, W.B., 1993, A validation of the $^3\text{H}/^3\text{He}$ method for determining groundwater recharge: *Water Resources Research*, v. 29, no. 9, p. 2951–2962.
- Yager, R.M., Kappel, W.M., and Plummer, L.N., 2007, Halite brine in the Onondaga trough near Syracuse, New York— Characterization and simulation of variable-density flow: U.S. Geological Survey Scientific Investigations Report 2007–5058, 40 p., at <http://pubs.usgs.gov/sir/2007/5058>.

* Note: For Pre-2004 fault-related references see: <http://www.ela-iet.com/Bibliography011204.pdf>

** Assembled May 4, 2013 by Elizabeth Wilmington, I2M Associates, LLC, Houston and Seattle.
For additional information see: <http://www.I2MAssociates.com/News>

*** For information on peripheral subjects, search the [I2M Web Portal](#).

XXX