

Suggested Water Well and Pump Publications

The following books and manuals are recommended for new sanitarians or individuals preparing to take the Michigan water well drilling contractor or pump installer registration examination.

1. **Michigan Water Well Construction and Pump Installation Code** (state well code), 12/99 EQC 2071, 72 pages, Michigan Department of Environmental Quality (MDEQ), Drinking Water and Environmental Health Section (DWEHS). This document contains water well system construction standards and minimum qualification requirements for contractor registration in the state of Michigan. *Available online at www.michigan.gov/deqwaterwellconstruction, or from the MDEQ, DWEHS, Environmental Health Programs Unit (EHPU), Well Construction Program (WCP).*
2. **Water Well Manual**. This document contains materials from the annual Ground Water and Wells Fundamental's Course sponsored by the Michigan Ground Water Association, Inc., and reviews the state well code, geology, hydrogeology, water system design, water well drilling methods, water well record completion, pumping equipment, water system disinfection, water sampling, and water well abandonment. It also includes a practice exam. *Available online only at www.michigan.gov/deqwaterwellconstruction. Click on "Manuals/Handbooks".*
3. **Ground Water and Wells, 3rd Edition**, edited by Robert J. Sterrett, PhD, RG, Johnson Division, 2027, 812 pages. This classic reference comprehensively covers ground water development. It includes: occurrence and movement of ground water, water well hydraulics, drilling methods, drilling fluids, installation and removal of water well screens, screen development, ground water chemistry, conducting pump tests, and much more.
4. **Manual of Water Well Construction Practices, 2nd Edition**, Edited by Stuart Smith, National Ground Water Association (NGWA), 1998, 246 pages. This is a comprehensive guide for water well drilling contractors and water well inspectors.
5. **Water Systems Handbook, 12th Edition**, by the Water Systems Council, 2006, www.watersystemscouncil.org. This document is a series of seven booklets. Each booklet covers one or more topics from private water system design, operation, and maintenance, which thoroughly covers pump types, pump operation along with troubleshooting, water treatment, and ground water heat pumps.
6. **Large Submersible Water Pump Manual, 4th Edition**, by Water Systems Council, 2001, 76 pages. This document covers large capacity submersible pumps (6 inches and larger), valves, and tank sizing.
7. **NGWA Voluntary Certification Exam Study Guide**. Includes study materials for certifications offered by the NGWA and valuable test taking tips.

8. **Well & Borehole Sealing: Importance, Materials, Methods, and Recommendations for Decommissioning**, by Stuart Smith, Wisconsin Water Well Association, National Ground Water Association, 1994, 69 pages.
A highly informative book on the importance of borehole sealing and well decommissioning with thorough coverage of grout properties, preparation, and emplacement practices.
9. **Submersible Motors: Application-Installation-Maintenance**, Franklin Electric, August 2008 Edition, 61 pages. Resource for information on 60 Hz, single and three phase submersible pump motors, including water system troubleshooting procedures.

Items 3-7 are available from the NGWA Online Bookstore at www.ngwa.org/bookstore.html or can be ordered by contacting:

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