

TYNGSBOROUGH BOARD OF HEALTH WELL REGULATIONS  
EFFECTIVE 8/4/88

Section . Authority

These regulations are adopted pursuant to Chapter III, Section 31 of the Massachusetts General Laws. For the purpose of preserving the public health as relates to standards for wells within the Town of Tyngsborough.

Section II

A. Well construction permits shall only be issued for work to be performed by individuals who are licensed as a well driller by the Commonwealth of Massachusetts as required by 313 CMR 3.00 and Massachusetts General Law Chapter 21, Section 16.

B. No one shall engage in the construction, alteration, repair, abandonment or installation of a well without first obtaining a well construction permit from the Tyngsborough Board of Health .

C. Every well driller engaged in operations described in these regulations shall file a copy of their license or certificate issued by the Commonwealth of Massachusetts with the Board of Health. On July 1 of every year all drillers shall file a copy of their current license or certificate with the Board.

D. A suitable plot plan shall be filed at the time of application for a well construction permit. The location of existing and/or proposed wells and septic systems within ,150 feet of the proposed well shall be noted. Permits shall expire 12 months from the date of issuance.

E. The well location, design, operation, and water quality must be approved by the Board of Health before its use as a potable water supply.

Section III

All wells shall be located a sufficient distance from sources of contamination and pollution.

1. The minimum distances required from a well are as follows:

Cesspool	100 feet
Leaching Area	100 feet
Reserve Leaching Area	100 feet
Property lines	20 feet
Subsurface Drains	75 feet
Septic Tank	50 feet
Surface Water	50 feet

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B. Wherever possible wells shall be sited at an elevation offering protection from contamination. Wells shall be on the higher elevation of the ground water gradient in relation to any sources of contamination or pollution.

C. No well shall be located in a low area with a potential for ponding of rainfall or surface run-off.

D. The well cap should be water-tight and shall extend at least 12 inches above the finished grade.

E. The space outside the well casing should be sealed with a water tight grouting with a minimum of two inches thickness and extending from the ground surface to a minimum depth of 10 feet. In the case of a shallow well, the casing should be surrounded at the ground surface with a reinforced 4" thick concrete slab away from the well for at least 2 feet in all directions.

F. Casings should be sealed into overlying impermeable formations with a drive shoe to retain artesian pressure.

G. A sanitary well seal shall be installed at the top of the casing to prevent contamination by objectionable materials or pollutants. The seal shall be in conformance with existing standards of sanitary practice.

H. All wells shall have a permanent casing extending a minimum of 10 feet into bedrock to act as a seal to keep out ground water.

I. The well casing shall comply with specifications of any of the following:

American Society for Testing & Materials (ASTM)  
American Petroleum Institute (API)  
American Iron & Steel Institute (AISI)  
U.S. Government Standards

and have a minimum thickness of 0.258 inches.

J. 1. The well must be test pumped to demonstrate its ability to furnish sufficient water. This must be accomplished at a constant pumping rate for a minimum of 4 hours at a rate approximating the expected pumping use rate. The pump test must be performed to indicate water availability of at least 5 gallons/minute.

2. The pumping test shall be performed by a qualified pump or well drilling contractor.

3. Maximum draw-down shall be recorded and the well must

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recover completely to the original static water level within 24 hours.

Section IV.

A. Water quality shall conform to standards determined by the Town of Tyngsborough by the Director of Public Health. Water must meet accepted standards of agencies of both the Commonwealth of Massachusetts and the federal government, the Board or its agent(s) may impose more rigid standards when deemed necessary to protect public interests.

B. Permanent disinfection of a biologically polluted water supply shall be prohibited however, water treatment units shall require Board of Health approval prior to any installation, and subsequent water quality tests may be required as proof of treatment efficacy.

C. Samples of water drawn for laboratory testing shall be witnessed by Board of Health representative or drawn by laboratory personnel. The testing laboratory must certify that the sample is a true and representative sample.

Section V.

A. A record of the well shall be provided to the Board of Health after installation. The record shall describe the following minimum data:

- |                              |                          |
|------------------------------|--------------------------|
| 1. Location                  | 7. Soil Strata           |
| 2. Depth of Bedrock          | 8. Diameter of Well      |
| 3. Size of Casing            | 9. Results of pump test  |
| 4. Dept of Casing in Bedrock | 10. Property Owner       |
| 5. Depth to Water            | 11. Property Locus       |
| 6. Depth of Well             | 12. Name of Well Driller |

Other information may be required.

Section VI.

A. Shallow wells that rely upon ground water rather than an aquifer shall be permitted only by special permission of the Board of Health. This may be done when in the opinion of the Board enforcement of these regulations would do manifest injustice and not serve public health interests for which they are intended.

B. Inspection by the Board of Health or its agent(s) and compliance with these regulations are not a guarantee that any part of a well water system will function satisfactorily.

C.. Each portion of these regulations shall be considered

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as separate and if any portion shall be held invalid for any reason all remaining elements shall remain in force.

D. If water obtained from a well is found to be contaminated the well is to be sealed. It is not permissible to drill deeper and possibly contaminate a deeper aquifer. Data regarding the well must be sent to the Board of Health.

Section VI

E. Reserved.

I. Waiver Provisions

The Board of Health reserves the right to waive any or all these requirements for cause as appropriate for specific situations.

J. Severability

Each of the above adopted local regulations shall be construed separate so that if any regulation, sentence, clause or phrase thereof shall be invalid for any reason, the remainder of that regulation and all other regulations shall remain in force.