Well Regulations

LEGAL NOTICE

llowing towns: Berlin, Bolton,), Lunenburg and Shirley as In- l members of the Nashoba As- d Boards of Health, voted at ly scheduled meetings of each o adopt the following well regula- :ach individual board shall retain proving authority to enforce and said regulations as they choose he authority of Chapter 111, Sec- 1, M.G.L. These regulations e effective upon publication.

WELL REGULATIONS

pose and Authority

regulations are intended to pro- the public health and general by ensuring that private wells nstructed in a manner which will the quality of the groundwater d from private wells. These lions are adopted by the authority pter 111, Section 31, M.G.L.

finitions

d in these regulations, the follow- rms shall be defined and inter-, as follows:

andoned water well. A private well is not been used for a water supp- a period of one (1) year or more hich the owner does not intend to ain.

gent. The Nashoba Associated s of Health (hereinafter referred to shoba) serving as the agent for oard of Health, as provided by er 111, Section 27A.

uifer. A water bearing geologic tion that contains water in suffi- quantities to potentially supply a or drinking water or other pur-

rson. An individual, corporation, any, association, trust, or partner-

table water. Water that is satisfac- or drinking and for culinary and stic purposes.

rivate well. A water supply well will not serve either a number of e connections or a number of in- als sufficient to quality as a public r system as defined in MR22.02.

umps and pumping equipment. quipment or materials used or in- d for use in withdrawing or obtain- oundwater, including, without limi- , seals and tanks, together with fit- and controls.

egulating agency. The town Board lealth through its agent, the oba Associated Boards of Health.

ell. An excavation or opening into round made by digging, boring, g, driving, or other methods, for the se of providing a potable drinking supply.

Well driller and/or digger. Any per- who is licensed by the Water urces Commission (as defined by ter 620 of the Acts of 1956, as ded) to construct wells.

Well Seal. An approved arrange- or device used to cap a well or to lish and maintain a junction bet- the casing or curbing of a well and piping or equipment installed in, the purpose or function of which revent pollutants from entering the l the upper terminal.

equirements for Private Wells

~~A private well shall be deemed n~~ e of potable water unless it is con- ted in accordance with these ations.

ell shall be destroyed except in ac- ance with these regulations.

or each private well constructed the effective dates of these regula- , there shall be:

a well construction permit applica-

a well construction permit;

a water quality analysis;

a certificate of compliance with the s of the permit;

a well driller's or digger's report.

or each private well destroyed after effective date of these regulations, shall be

a well destruction permit applica-

a statement of well abandonment the owner;

3.0 Well Construction or Destruction Permits

(1) No person shall engage in the busi ness of constructing or destroying private wells within the Town under these regulations unless registered as a well driller/digger with the Water Resources Commission, pursuant to 313CMR3.00.

(2) An application for a well construction or destruction permit shall be submitted by the property owner, the well driller/digger or his agent to Nashoba on a form furnished by Nashoba.

(3) A well construction or destruction permit shall be obtained from Nashoba prior to the construction or destruction of any private well. Nashoba shall charge a fee for each well construction or destruction permit and said fee shall be paid to the Nashoba Associated Boards of Health prior to the permits issue.

4.0 Well Construction Permit Requirements

The following information shall be submitted by the property owner or the well driller/digger or their agent with the well construction application, prior to the issuance of a permit:

(a) general location of the proposed well to include the location of at least one road intersection for reference;

(b) a sketch of the expected construction of the well to include an approximation of the expected well depth;

(c) a description of any possible source(S) of contamination within 400 feet of the proposed well location (see sect. 4.1(1);

(d) The well driller's/digger's name and certification number as it appears on the Water Resources Commission certificate.

(e) description of the prior/current land use in the vicinity of the proposed well location (ie. agricultural, industrial, etc.). For emergency repair, alteration, or replacement of an existing well the Board of Health of Nashoba may waive the requirements of these regulations for dwellings which were in existance prior to the effective date of this regulation.

4.1 Well Location Requirements

(1) In establishing the location of a well, the well owner and/or the driller/digger, shall identify any and all sources of potential contamination (agricultural fields, animal feed lots, beauty salon, dry cleaner, funeral home, furniture stripper/refinisher, gasoline/service stations, fuel depot, automotive junk yard, railroad line or yard, etc.) which exist within 400 feet of the proposed well site.

The following minimum lateral distances from contamination shall apply with the granting of a variance under special conditions:

Source of Contamination	Minimum Distance (feet)
leaching facility (310CMR15.00)	100
leaching facility (in soils with percolation rates two minutes per inch or less)	150
cesspool	100
septic tank	50
sewer line	50
property line	50
public or private way, common drive, easement	50
active or closed landfill	400
hazardous waste spill site	400
any type of surface water	100

(2) Where, in the opinion, pursuant to the Board of Health or Nashoba, adverse conditions exist, the above minimum distances may be increased or special means of protection may be required. These special requirements shall be added to the well construction permit by Nashoba.

(3) The well shall be upgradient of sources of contamination whenever possible. The top of the well shall be higher than any surface of contamination and above any conditions of flooding by drainage or runoff from the surrounding land, unless otherwise adequately protected.

4.2 Well Construction Standards

(1) Wells shall be constructed in compliance with the recommendations of the latest edition of the Manual of Individual Water Supply, U.S. Environmental Protection Agency (U.S. EPA), Water Supply Division (exception: springs shall not flooding. In addition all non-vent openings shall be sealed to exclude the intrusion of contaminants. Vent openings shall be of an approved type, complete with screening.

(4) When well screens are used, the screen length and opening size should be selected to ensure that the water supply will be free from silts and sands and other suspended solids.

(5) Well pumps and water storage equipment shall be selected to ensure that the water supply is to be adequate (a minimum of five gallons per minute (GPM) is recommended) over a sustained period of pumping. NOTE: The proper selection of the pump is important to protect against unnecessary wear on the equipment and to maintain a safe and adequate supply of water.

(6) Pump suction lines (if used) shall not be closer than 100 feet from underground sewage leaching facilities or 50 feet from a septic system (310CMR15.03).

(7) Well pits to house the pumping equipment or to permit accessibility to the top of a well shall not be permitted.

4.3 Disinfection and Other Sanitary Requirements

All private wells shall be disinfected following construction, rehabilitation, and well or pump repair, before the well is placed into service. The well shall be pumped to waste (not to the septic system) until the water is as clear as possible. Thereafter the well and the pumping equipment (and plumbing, if installed) shall be disinfected with a solution containing at least 50 parts per million (ppm) of chlorine. The well shall remain in contact with the cholorine solution for a minimum of 24 hours before the well is pumped to waste (not the septic system) and the water found to be free of chlorine.

(Information and instructions for the disinfection procedure is available from Nashoba)

4.4 Water Sampling Procedure

(1) Water sample(s) shall be collected by Nashoba. All water sample(s) shall be collected in an appropriate manner as to maintain the integrity of the sample collected. Collection of the sample(s) shall occur following the well development and the disinfection process for that well (see section 4.3). The water sample may be taken to a laboratory of Nashoba's choice unless the owner selects a specific laboratory, at which time the sample container may be sealed with a custody tag and be delivered to the owner selected testing laboratory by him/herself. The laboratory shall be required to notify Nashoba should the sample be received with a broken custody seal.

(2) A representative water sample for laboratory analysis shall be collected at the pump discharge or from a tap in the pump discharge line. A representative sample shall constitute a sample collected after the removal of at least three standing volumes of water from the well or a minimum of 10-15 minutes of pumping from the well.

(3) The sample(s) shall be analyzed for the following parameters at a minimum: Coliform bacteria, Arsenic, Lead, Sodium, Iron, Manganese, Copper, Magnesium, Color, Sulfate, Turbidity, Alkalinity, Chlorine, Chloride, Hardness, Ammonia, Nitrite, Nitrate, pH, Conductivity, Odor and Potassium. All analyses shall be performed in accordance with U.S. EPA methods or other approved methods for drinking water analysis.

(4) Analytical tests such as volatile organics (VOCs), pesticides, PCBs and inorganics (metals) other than those specified in 4.4(3), can be added or deleted, as public knowledge increases or at the request of the town Board of Health or Nashoba, when conditions may indicate the need (i.e. prior land use) for such testing. Samples which are to be analyzed for volatile organic compounds shall not contain air bubbles of any size.

4.5 Water Quality

(1) All analytical results shall be reviewed by Nashoba and an assessment of the suitability of that well for drinking water will be made. Nashoba will adhere to the current and applicable drinking

ly of the applicant and all fees shc paid in full prior to the approval of well permit.

(3) As stated in section 4.4., Nashob the town Board of Health may rec that additional chemical analysis be formed on the well water. Any such ditional requirement shall specify w chemical constituents or chemical tions (pesticide/PCB, extractables, shall be tested for.

(4) No result shall exceed the cu and applicable drinking water stand for a public water supply as detaile the U.S. EPA and/or DEQE (40CFF and 310CMR22). Coliform results be zero colinies per 100 ml of samp upon a positive result be followed by successive zero coliform res Nashoba may also use professi judgment when assessing the resul the water well prior to approval of well. When the results indicate a pc tial health hazard (ie. possible gas contamination) Nashoba may a discretion disapprove the well for us a water supply.

4.6 Well Completion Requirements

(1) Within 30 days after the compl of the construction of any well, the driller/digger shall submit to Nasho report containing the following info tion:

(a) The name of the owner of the

(b) The address of the property ed and/or the lot number as assigne the Assessor's office;

(c) The depth, size and metho construction of the well;

(d) The static water level;

(e) The yield of the well after pu ing;

(f) The well driller's/digger's log mation.

The well driller's/digger's report sha signed by an authorized represent and shall constitute a statement of pliance with all requirements of regulations. This will satisfy the quirement of the certificate of co ance.

5.0 Well Destruction

A well that is abandoned shal destroyed to protect the ground supply and to eliminate pote physical hazards. Wells shall be se with non-hazardous, impervious m rials which shall be permanentl place. All exposed casing mate pumping equipment, and distrib lines shall be removed. The excav shall be returned to the existing gra the surrounding land. A record of a donment shall be kept in accord with these regulations.

5.1 Well Destruction Requirements

The following information shall be mitted with each well destructior plication, prior to the issuance of a mit:

(a) The specific location of the w be destroyed;

(b) The design and construction well to be destroyed;

(c) A written statement from owner that the well is abandoned;

Within 30 days after the destructi any well, the well driller/digger, or tractor shall submit to Nashoba a containing the following:

(a) The name of the owner of the

(b) The address of the property ed;

(c) Method of sealing, including rials used;

(d) Person or persons sealing th and date of the sealing of the well.

The well driller's/digger's report sh signed by an authorized represen and shall constitute a statement of pliance with all requirements of regulations. This will satisfy th quirement of the certificate of c ance.

6.0 Variances

(1) Variances may be granted o follows: The town Board of Healt vary the application of these regul with respect to any particular when, in its opinion, the enforc thereof would do manifest injustic the applicant has proven that the degree of public health and enviro tal protection required under regulations can be achieved v strict application of a particular sion(s)