



Board of Health
459 Main Street, Medfield, MA 02052

APPLICATION FOR SITE EVALUATION

Deep Hole _____, Groundwater _____, and/or Percolation Test _____

Application Fee: \$110.00 per site

Permit No.: _____

Address of Property: _____ Map /Parcel ID: _____

Property Owner Name: _____

Telephone: _____ Email Address: _____

Engineer: _____

Telephone: _____ Email Address: _____

Excavator: _____

Telephone: _____ Email Address: _____

Attach a plot plan showing the following information:

- _____ 1. Plot plan of property drawn to scale (8½" x 11")
- _____ 2. Proposed location(s) of testing
- _____ 3. Wetlands, watercourses and drains within 150 feet
- _____ 4. Distance to nearest intersecting street
- _____ 5. Any private wells within 150 feet, public wells within 400 feet
- _____ 6. A copy of the application shall be forwarded to the Conservation Commission

Property Owner/Applicant

Date

Permit Application Received:

Date of soil test: _____

Time of soil test _____ am / pm

**MEDFIELD BOARD OF HEALTH
EXCERPT OF SOIL TESTING REQUIREMENTS**

2. PERCOLATION AND WATER TABLE DATA

Percolation tests may be conducted at any time of the year, unless that time period is suspended by a vote of the Board of Health, because of excessively dry or freezing weather conditions.

All Soil testing to determine maximum ground water elevation for septic system design and permits for a given year must be conducted after December 20th and completed before May 29th, unless that time period is extended or shortened by a vote of the Board of Health. Soil evaluators shall place monitor wells in all deep test pits. Ground water levels shall be measured by the soil evaluator in such monitor wells between the 22nd and 29th of a month following the test hole analysis. All water levels measured are subject to a seasonal ground water adjustment. This shall be as determined by the Board of Health using the method as described in "U.S. Geological Survey, Water Resources Investigations, Open File Report 80-1205--Probable High Groundwater Levels in Massachusetts", or by the method of soil morphology as determined by the Soil Evaluator with the agreement of the Board of Health agent. Other adjustment values may be allowed by the Board on a case by case basis if supported by clear and convincing technical evidence to support such proposal by the soil evaluator.

For new construction, applications for percolation testing and high ground water testing during the ground water season shall be submitted prior to April 1st. Testing shall not be performed during the current year for the applications received after that date.

A completed soil test application shall consist of the application form, the required fee and a drawn to scale locus plan, no smaller than drawn on a scale of 50 feet to an inch, showing the proposed lot, the proposed location of the test holes and shall indicate generally the location of any water supplies, disposal systems or wetlands within 200 feet of the lot being tested as well as the distance to the nearest intersecting street. It shall show the location of any public water supply well within 500 feet. If there are no such water supplies, disposal systems or wetlands within that distance, it shall be so stated on the locus plan.

At the subject site at the time of testing, the soil classification as shown on the USDA NRCS shall be provided to the Board of Health agent. There shall be a minimum of two (2) deep test pits evenly distributed within the limits of the proposed leaching area and integrated expansion area, plus any others that might be designated by the Board of Health Agent, either at the time of testing or during the plan review period. If ledge or other severe soil conditions are encountered, it may be necessary to dig additional test holes, including, but not limited to, one at each corner of the proposed leaching area and one in the center, to assure consistent conditions throughout. An additional test pit shall be dug at the location of the proposed new dwelling or otherwise habitable structure to establish the elevation of the High Ground Water at that location. Deep test pits shall be dug to a minimum depth of four (4) feet below the bottom of the proposed leaching area, and in no event less than ten (10) feet deep, except in cases of refusal at the test hole location. The results of the deep tests shall be shown in a graphical "log" format, showing

soil strata with elevation, elevation of the ground surface, elevation of the bottom of the hole, elevation of any ledge or refusal encountered, the elevation of ground water if encountered, or indicate "none encountered" when applicable, the date of the test and the name of the Board of Health representative who observed such test. Deep test pit results shall not be accepted or observed by the Board of Health at other times of the year from that designated above, except for the upgrade of systems failing to protect the public health or safety or the environment.

A minimum of two (2) stabilized percolation tests shall be performed at an elevation which is representative of the soil extending for a depth of four (4) feet below the leaching field and along its side walls. Additional tests shall be required, either at the time of testing or during the plan review period, when, in the opinion of the Board of Health Agent, the percolation rate is not consistent or similar between the two tests, when large disposal areas are required or where the soil structure varies. Percolation tests shall be conducted in accordance with Title 5 of the State Environmental Code with the following modifications:

- a. Percolation rates shall be expressed to the nearest integer minute per inch.
- b. The overnight soak procedure as described in Title 5 shall be required in all cases where the percolation rate is slower than fifteen (15) minutes per inch.
- c. The results of the percolation tests shall be tabulated on an inch by inch basis and that data shall be inscribed on the design plan. If the rate of water drop is not uniform, in the opinion of the Board of Health or its Agent, the test shall be repeated until such uniform rate is achieved.
- d. The sewage application rates as designated in Title 5 shall not be interpolated. Measured values shall be rounded up to the next percolation rate value as stated in Title 5.

All tests shall be observed by the Board of Health Agent.

All tests shall be performed in natural soil that has not been disturbed or altered by previous filling, excavation, blasting or other means. All test pits shall be adequately protected by the applicant to prevent accidents to both humans and animals. The pits shall not be filled in until they have been inspected by the Board of Health Agent. After the tests are completed and all data has been recorded, the test holes shall be filled. Test holes shall not be left open overnight.

In addition to the percolation tests, grain size analysis of the soil shall be required whenever the design flow is greater than 1000 gallons per day, or otherwise deemed necessary by the Board of Health agent to verify the soil classification.



Massachusetts Wetlands Protection Act
&
Medfield Wetlands Bylaw

Any and all work within the one hundred (100) foot buffer zone of a wetlands resource area or within two hundred (200) feet of a river MUST file for a Request for Determination of Applicability; or A Notice of Intent with the Conservation Commission