

**NOTICE  
DRINKING WATER  
STANDARDS  
FOR NEW CONSTRUCTION  
AND COMPLETE DEMOLITION  
OF EXISTING DWELLINGS  
WITH NEW CONSTRUCTION**

**If your dwelling is serviced by a private well, you must submit to this office, prior to a certificate of Occupancy being issued, written documentation which demonstrated compliance with the drinking water standard Table 1 (attached) established by the Director of the Rhode Island Health Department.**

**Attached is a list of the Department of Health Certified Labs, the web site for the DOH regulations and a list of registered well drillers and pump.**

## Rhode Island State Health Department Well Water Testing Requirements

Constituents*	Testing Requirements (see guidance for testing frequency recommendations)
Alkalinity (as CaCO <sup>3</sup> )	For Certificate of Occupancy, or New well for new or existing buildings or Transfer of real property
Total Coliform & Escherichia Coli	
Hardness (as CaCO <sup>3</sup> )	
Chloride	
Flouride	
Iron	
Lead	
Manganese	
Nitrate/Nitrite	
pH	
Specific Conductance	
Sulfate	
Total Dissolved Solids	
Turbidity	
Volatile Organic Compounds (VOCs) **	
MTBE <sup>^</sup>	

\* - The minimal list of constituents needed for testing.

\*\* - At a minimum, must include the regulated VOCs listed in Table 16.2 (b) of the public drinking water regulations found in reference #1.

<sup>^</sup> - No MCL available, Rhode Island State Health Advisory level at 40 ppb.

**Any Questions pertaining to water testing or wastewater requirements may be referred to the Environmental Director for the Town of Charlestown - Matt Dowling (401)-364-5030**



State of Rhode Island:

## Department of Health

### Certified Private Wells Testing Laboratories

#### CONTACT INFORMATION

(Click on the laboratory name to view  
analyte/method list)

#### CERTIFICATION CATEGORIES

#### BAL

185 Frances Ave.  
Cranston, RI 02910  
Certification # LAI00036  
Darlene Capuano  
401-785-0241

Potable water microbiology

#### ESS Laboratory

185 Frances Avenue  
Cranston, RI 02910  
Certification # LAI00179  
Laurel Stoddard  
401-461-7181

Potable water organic chemistry  
Potable water inorganic chemistry

#### New England Testing Lab Inc.

1254 Douglas Avenue  
North Providence, RI 02904  
Certification # LAI00004  
Richard Warila  
401-353-3420

Potable water microbiology  
Potable water organic chemistry  
Potable water inorganic chemistry

#### Northeast Environmental Testing Laboratory

472 Smith Street  
Providence, RI 02908  
Certification # LAI00119  
Raymond Spinella  
401-454-3400

Potable water microbiology  
Potable water inorganic chemistry

#### Premier Laboratory, LLC

61 Louisa Viens Drive  
PO Box 700

Potable water microbiology  
Potable water organic chemistry  
Potable water inorganic chemistry

Dayville, CT 06241  
Certification #LAO00300  
860-774-6814

Rhode Island State Health Laboratories  
50 Orms Street  
Providence, RI 02904  
Certification # LAI00121  
Ewa King, PhD  
401-222-5600

Potable water microbiology  
Potable water organic chemistry  
Potable water inorganic chemistry

RI Analytical Laboratories  
41 Illinois Avenue  
Warwick, RI 02888  
Certification # LAI00033  
Paul Perrotti  
401-737-8500

Potable water microbiology  
Potable water organic chemistry  
Potable water inorganic chemistry

Spectrum Analytical, Inc. Featuring Hanibal  
Technology Rhode Island Division  
646 Camp Avenue  
North Kingstown, RI 02852  
Certification # No. LAI00329  
Ylhai Ding  
401 732-3400

Potable water inorganic chemistry

**State of Rhode Island  
Registered Well Drillers and Pump Installers  
February 2011**

<b>Well Drillers / Pump Installers</b>		
A. B. Hoxie, Inc P O Box 1620 Charlestown, RI 02813	(WD/PI 15)	364-0118
A. Chapman (changed name R. E. Chapman Co) 68 Laurel Street West Boylston, MA 01582	(WD/PI 04)	508/835-6231
A & J Wells Company, Inc. P O Box 698 Slatersville, RI 02876	(WD/PI 29)	766-2832
ACE Wells & Pumps, Inc. P O Box 1068 Slatersville, RI 02896	(WD/PI 64)	800/334-6883
All About H <sub>2</sub> O P O Box 98 Chepachet, RI 02814	(WD/PI 70)	877/426-4505
Aqua Science 301 Nooseneck Hill Road Wyoming, RI 02898	(WD/PI 73)	539-0500
B. L. Myers Bros. of Mass, LLC (David B. Myers) P O Box 490 Glenmore, PA 19343	(WD/PI 60)	800/947-5552
Boart Longyear Company 71 Concord Street North Reading, MA 01864	(WD/PI 49)	781-933-3210
Charlton Well Company Inc. Route 20, P O Box 375 Charlton, MA 01507	(WD/PI 68)	508/248-7063
Cumberland Well & Pump Inc. 11 Cook Road Cumberland, RI 02864	(WD/PI 18)	333-6637
Dalmik Well Drilling Company 137 Providence Street Putnam, CT 06260	(WD/PI 39)	860/928-6220
D M Drilling Services P O Box 264 52 Chace Road East Freetown, MA 02717	(WD/PI 84)	508-763-3300

Well Drilling/Pump Installer (continue)		
D. S. Lorenson Drilling, Inc. 283 Old Flat River Road Coventry, RI 02816	(WD/PI 02)	397-3926
F. G. Sullivan Drilling Company, Inc. 408 Parker Road Lancaster, MA 01523	(WD/PI 56)	978/365-2932
G. R. Joslin & Sons Well Pump Company 172 Maxson Hill Road Ashaway, RI 02804	(WD/PI 22)	377-4422
J. Russell Water Well Inc P O Box 1025 Hope Valley, RI 02832	(WD/PI 09)	539-2739
Hawkins Well & Pump Co. Inc P O Box 149 Ashaway, RI 02804	(WD/PI 14)	377-2539
LaFramboise Well Drilling, Inc. 647 Thompson Road P O Box 303 Thompson, CT 06277-0303	(WD/PI 21)	860/923-9543
Paul's Water Works, Inc. 6 Circle Drive P O Box 1016 Slatersville, RI 02876	(WD/PI 61)	769-5809
Precision Well & Pump Systems P O Box 98 Wyoming, RI 02898	(WD/PI 71)	364-5426
RI Artesian Well, Inc. 28 Allison Avenue Coventry, RI 02816	(WD/PI 40)	397-3772
Richard W. Batchelder P O Box 602 Block Island, RI 02807	(WD/PI 12)	466-2195
Richardson Wells and Pumps 314 Chestnut Street Uxbridge, MA 01569	(WD/PI 08)	508/278-5333
Sima Drilling Company, Inc. 150 School House Road Cheshire, CT 06410	(WD/PI 25)	203/272-3077
Stephen B. Church Company P O Box 67 Seymour, CT 07483-0067	(WD/PI 19)	203/888-2132
T. J. Ogden Company Inc. 17 Catherwood Road Tewksbury, MA 01876	(WD/PI 63)	978/453-8200

Well Driller/Pump Installer (continue)		
Tony's Well Drilling 376 Butlertown Road Oakdale, CT 06370	(WD/PI 55)	860/442-9909
Water Well Systems Inc. 32 Contillo Drive Johnston, RI 02919	(WD/PI 52)	231-3402
Welltech 16 Legate Hill Road Sterling, MA 01564	(WD/PI 80)	978/422-7616
Wellworks 13 Debra Drive Carolina, RI 02812	(WD/PI 57)	364-8939
Well Drillers		
Advance Well Drilling 294 Ball Hill Road P O Box 216 Princeton, MA 01541	(WD 69)	978/464-0100
Alpine Environmental, LLC 2303 South Main Street Middletown, CT 06457	(WD 78)	203/269-9522
American Environmental Assessment Co 188 Long Island Avenue Wyandanch, NY 11798	WD-93	860/346-0027
American Well & Pump, Inc. 5 Appletree Lane Westport, MA 02790	(WD 81)	508/728-1186
Bertrand Well Drilling 162 Plympton Street Middleboro, MA 02346	(WD 79)	508/294-0165
Cherokee Enterprises LLC 30 Echo Lake Road Watertown, CT 06795	(WD 91)	860/417/2085
Chowance Well Drilling, LLC P O Box 142 98 Old Willimantic Road Columbia, CT 06237	(WD 87)	860/228/3147
Cummings Drilling Company 1040 Princeton Street Jefferson, MA 01522	(WD 74)	508/829-0080
Dragin Drilling, Inc 2696 Cranberry Highway Wareham, MA 02571	(WD 77)	508/295-9040
Drilex 127 Hartwell Street West Boylston, MA 01583	(WD 85)	508/835-6724

Well Drillers (continue)		
Expedition Drilling 52 Elm Street, Bay 1 Manchester, NH 03101	(WD 90)	603/645/9400
Franklin D. Rego, Jr. 458 West Main Road Little Compton, RI 02837	(WD 30)	625-1285
Geosearch Inc. 20 Authority Drive Fitchburg, MA 01420	(WD 72)	978/422-3338
Matthew R. Miller 32 Contillo Drive Johnston, RI 02919	(WD 88)	742-6540
Viera Artesian Well Company 253 Andover Street Georgetown, MA 01833	(WD 66)	978/352-8586
Wragg Well Drilling & Pump Service 172 Baker Road Roxbury, CT 06783	(WD 86)	860/354/1989
Pump Installers		
ABC Drilling Company 612 Wilbur Avenue Cranston, RI 02921	(PI 03)	944-3430
Advance Pump Company David Wright P O Box 616 Slatersville, RI 02876	(PI 54)	508/278-6554
Charles Carosilli / C & C Systems 75 Grant Drive North Kingstown, RI 02852	(PI 41)	884-5525
Charlie Greene & Sons Box 6 Hopkinton, RI 02833	(PI 43)	377-2793
D. Mulcahey's Pump Service Wells 296 Putnam Pike P O Box 152 Harmony, RI 02829	(PI 62)	949-2131
Douglas Pierce/ The Pump Doc 22 Jacobson Trail Ashaway, RI 02804	(PI 45)	377-2875
F & L Well and Drill Pump Company 310 Buck Hill Road Pascoag, RI 02859	(PI 75)	567-9016 855-4105
Thom's Well & Pump Company 14 Swan Road Smithfield, RI 02917	(PI 23)	949-4404

Pump Installers (continue)		
Wilmington Pump Supply, Inc 639 Woburn Street Wilmington, MA 01887	(PI 82)	978-658-3557

## Guide to Understanding Your Drinking Water Results

<b>Parameter</b>	<b>Potential Health Risks and Aesthetic effects</b>
<b>Total Coliform, TC</b>	Total coliform is naturally occurring and does not usually pose a health risk, however it may indicate the presence of other harmful bacteria. Drinking water with "present" for total coliform should not be used as drinking water.
<b>E.coli Bacteria</b>	Drinking water with <i>E. Coli</i> present should not be used in any manner. Please call your local Health Department for further instructions if your water is "present" for <i>E. Coli</i> .
<b>Alkalinity</b>	Alkalinity is a measure of water's capacity to neutralize acids. Water with a lower alkalinity (less than 150 mg/L) can be corrosive while a higher alkalinity (greater than 150 mg/L) can contribute to scaling. Alkalinity is not considered a health risk but is associated with high pH values, excess dissolved solids, and hardness.
<b>Arsenic</b>	The presence of arsenic is due to the erosion of natural deposit, industrial discharges and pesticides. Health effects associated with ingesting arsenic include circulatory damage, skin damage, and increased risk of cancer.
<b>Beryllium</b>	Beryllium is a naturally occurring element found in bedrock. Long term exposure to beryllium can increase the risk of cancer.
<b>Calcium</b>	Calcium is naturally occurring and has a typical range of 10-500mg/L. *refer to <i>Hardness</i>
<b>Chloride</b>	Chloride occurs naturally in most groundwater. High levels of chloride are associated with road salt runoff, animal manure, industrial waste, and sewage effluent. Chloride is also used as a water additive to control microbes. While chloride has no direct health risks, levels higher than the recommended amount (250 mg/L) can be corrosive to plumbing fixtures and give water a salty taste.
<b>Color</b>	Unusual color in water can be caused by dissolved organic materials such as vegetation and natural metallic deposits such as iron and manganese. Color does not have any direct health threats but it may indicate the presence of other harmful contaminants.
<b>Copper</b>	Copper in drinking water is typically due to the corrosion of household copper plumbing systems. It may also result from the erosion of natural deposits. High copper can sometimes cause gastrointestinal distress and liver and kidney damage.
<b>Foaming Agents</b>	Foaming agents also known as detergents, can cause bitterness and cloudiness or stain laundry and fixtures but are not considered a health effect. A common source of foaming agents is from runoff.
<b>Fluoride</b>	Sources of fluoride include natural deposits, agricultural runoff and industrial waste. Fluoride is also added to town water to prevent tooth decay. Too much fluoride can contribute to bone disease. Children are at higher risk for developing mottled or yellow teeth.
<b>Hardness</b>	Hard water is caused by high levels of calcium and magnesium ions due to the leaching of certain minerals such as limestone. Hard water can cause build-up in pipes, deposit a hard scale and decrease the cleaning action of soap. Hardness Scale: 0-75 = Low/Soft 76-150 = Moderate 150-250 = Hard 250 or greater = Very Hard
<b>Iron</b>	Iron is naturally occurring in rock and soil. Iron has no direct health effects but may cause deposit build-up and reddish/brown staining.
<b>Lead</b>	Sources of lead include erosion and plumbing corrosion. In infants and children, lead can cause delays in mental and physical development. Adults can experience high blood pressure and kidney problems.
<b>Magnesium</b>	Magnesium is naturally occurring *refer to <i>Hardness</i> .

## Guide to Understanding Your Drinking Water Results

<b>Manganese</b>	Higher levels of manganese can cause brown/black staining of laundry and fixtures, and may contribute to an odor.
<b>Nitrate</b>	Serious illness in fetuses and infants can occur when pregnant or nursing women consume high levels of nitrate and nitrite. These symptoms include shortness of breath, blood-related problems, Blue baby syndrome and can even result in death. Nitrate and nitrite may naturally occur in ground water in small amounts, but other sources include erosion, human and animal waste, and agricultural runoff.
<b>Nitrite</b>	<i>*See Nitrate.</i>
<b>Odor</b>	Odor is a useful indicator of water quality and filtration effectiveness, but alone cannot determine whether water is safe to drink. The recommended safety level of odor has been determined by the EPA according to aesthetic values although drinking water should be odor free.
<b>pH</b>	pH analysis determines the acidity (low pH) or the alkalinity (high pH) of water. pH does not have any direct health effects, but a low pH may cause corrosion of plumbing fixtures, which can lead to the leaching of other contaminants.
<b>Sodium</b>	High sodium levels may be a concern for those who are on salt-restricted diets. Sodium is naturally occurring although other sources include road salt, sewage, fertilizers and other industrial wastes.
<b>Specific Conductance</b>	Specific conductance is a measure of how well the water can carry an electric current. Conductivity increases with a higher amount of ions, and indirectly measures dissolved solids. Sources of these solids include road and agricultural runoff and mining.
<b>Sulfate</b>	Sulfate is naturally occurring, but a recent EPA/CDC study determined that ingesting levels higher than recommended may cause abdominal discomfort and diarrhea.
<b>Total Dissolved Solids</b>	Determines levels of dissolved minerals and/or organic matter in drinking water that may cause color and odor in the water. High levels of TDS do not have direct health effects.
<b>Turbidity</b>	Turbidity is a measurement of cloudiness and may indicate the presence of harmful microorganisms that can cause headaches and nausea. Poor filtration and soil runoff are possible sources of high turbidity.
<b>Volatile Organic Compounds, VOC</b>	VOCs include a variety of compounds that are emitted as gases from water and solids. Some VOCs are known to cause liver, kidney and nervous system illnesses as well as cancer. A main source of VOCs is runoff from man-made chemicals such as household products.

**If you have any questions regarding your water testing results or you would like to discuss them in more detail, please call Mike McCallum at 401-353-3420 or email him at [mike.mccallum@newenglandtesting.com](mailto:mike.mccallum@newenglandtesting.com)**

### Helpful Links:

Massachusetts: <http://www.mass.gov/dep/water/drinking/standards/dwstand.htm>

Rhode Island: <http://www2.sec.state.ri.us/dar/regdocs/released/pdf/DOH/5302.pdf> "Appendix A"

<http://www.uri.edu/ce/wq/has/> and click on "Private Wells"

<http://www.health.ri.gov/drinkingwaterquality/for/privatewellowners/>

[http://www.epa.gov/ne/eco/drinkwater/private\\_well\\_owners.html](http://www.epa.gov/ne/eco/drinkwater/private_well_owners.html)

### Sources:

1) <http://water.epa.gov/drink/contaminants/>

2) <http://www.uri.edu/ce/wq/ww/Analyses.htm> "pH & Alkalinity"