

**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 ³)	For Certificate of Occupancy, or New well for new or existing buildings or Transfer of real property
Total Coliform & Escherichia Coli	
Hardness (as CaCO ³)	
Chloride	
Flouride	
Iron	
Lead	
Manganese	
Nitrate/Nitrite	
pH	
Specific Conductance	
Sulfate	
Total Dissolved Solids	
Turbidity	
Volatile Organic Compounds (VOCs) **	
MTBE [^]	

* - 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.

[^] - 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

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



Out of State Analytical Laboratories Certified by the RI Department of Health

LABORATORY CONTACT INFORMATION	CERTIFICATION CATEGORIES (Contact the Certification Officer for specific analytes/methods, at 401 222-5600)
Absolute Resource Associates 124 Heritage Avenue Unit 16 Portsmouth, NH 03801 Certification #LAO00334 (603) 436-2001	Potable water microbiology Potable water organic chemistry Potable water inorganic chemistry Non-potable water organic chemistry Non-potable water inorganic chemistry
Accurate Analytical Testing 30105 Beverly Romulus, MI 48174 Certification #LAO00345 734-699-5227	Environmental Lead
SGS Accutest Laboratories 2235 US Route 130 Dayton, NJ 08810 Certification #LAO00176 732-329-0200	Potable water organic chemistry Potable water inorganic chemistry Non-potable water organic chemistry Non-potable water inorganic chemistry
SGS Accutest Laboratories of New England 50D Angelo Drive 495 Technology Center West Bldg One Marlborough, MA 01752 Certification #LAO00071 508-481-6200	Potable water organic chemistry Potable water inorganic chemistry Non-potable water organic chemistry Non-potable water inorganic chemistry
Alpha Analytical 8 Walkup Drive Westborough, MA 01581 Certification #LAO00065 508-898-9220	Potable water microbiology Potable water organic chemistry Potable water inorganic chemistry Non-potable water microbiology Non-potable water organic chemistry Non-potable water inorganic chemistry
Alpha Analytical 320 Forbes Boulevard Mansfield, MA 01581-1019 Certification # LAO00299 508-898-9220	Non-potable water organic chemistry
ALS Environmental Rochester BLDG 300 Suite 360 1565 Jefferson Road Rochester, NY 14623 Certification #LAO00333 585-288-5380	Potable water organic chemistry Potable water inorganic chemistry Non-potable water organic chemistry Non-potable water inorganic chemistry



Out of State Analytical Laboratories Certified by the RI Department of Health

<p>Analytical Balance Corp 422 West Grove Street Middleboro, MA 02346 Certification #LAO00164 508-946-2225</p>	<p>Potable water microbiology Potable water organic chemistry Potable water inorganic chemistry Non-potable water microbiology Non-potable water organic chemistry Non-potable water inorganic chemistry</p>
<p>Aquatek Lab, Inc. 3 Research Drive Woodbridge, CT 06525 Certification #LAO00332 203-389-1824</p>	<p>Potable water microbiology Potable water inorganic chemistry</p>
<p>Complete Environmental Testing 80 Lupes Drive Staford, CT 06615 Certification #LAO00227 203-377-9984</p>	<p>Potable water organic chemistry Potable water inorganic chemistry Non-potable water organic chemistry Non-potable water inorganic chemistry</p>
<p>Con-Test Analytical Lab 39 Spruce Street East Longmeadow, MA 01028 Certification #LAO00112 413-525-2332</p>	<p>Potable water organic chemistry Potable water inorganic chemistry Non-potable water organic chemistry Non-potable water inorganic chemistry Environmental Lead</p>
<p>Connecticut Testing Laboratory, Inc. 165 Gracey Avenue Meriden, CT 06451 Certification #LAO00183 203-634-3731</p>	<p>Potable water microbiology Potable water organic chemistry Potable water inorganic chemistry Non-potable water microbiology Non-potable water organic chemistry Non-potable water inorganic chemistry</p>
<p>Eastern Analytical Inc. 25 Chenell Drive Concord, NH 03301 Certification #LAO00269 603-228-0525</p>	<p>Potable water microbiology Potable water organic chemistry Potable water inorganic chemistry Non-potable water microbiology Non-potable water organic chemistry Non-potable water inorganic chemistry Radiochemistry</p>
<p>Eastern Analytical Services 4 Westchester Plaza Elmsford, NY 10523 Certification #LAO00107 914-592-8380</p>	<p>Potable water inorganic chemistry Non-potable water inorganic chemistry Environmental Lead</p>
<p>EMSL Analytical INC 200 Route 130 North Cinnaminson, NJ 08077 License #LAO00318 800 220-3675</p>	<p>Potable water organic chemistry Potable water inorganic chemistry Non-potable water organic chemistry Non-potable water inorganic chemistry</p>



Out of State Analytical Laboratories Certified by the RI Department of Health

<p>Environmental Hazards Services 7469 Whitepine Road Richmond, VA 23237 Certification #LAO00266 804-275-4788</p>	<p>Non-potable water inorganic chemistry Environmental Lead</p>
<p>Environmental Science Corporation 12065 Lebanon Road Mount Juliet, TN 37122 Certification #LAO00221 615-758-5858</p>	<p>Potable water organic chemistry Potable water inorganic chemistry Non-potable water organic chemistry Non-potable water inorganic chemistry Environmental lead</p>
<p>Eurofins Eaton Analytical Suite 100, 750 Royal Oaks Drive Monrovia, CA 91016 Certification #LAO00326 626-386-1100</p>	<p>Potable water microbiology Potable water organic chemistry Potable water inorganic chemistry Radiochemistry</p>
<p>Eurofins Eaton Analytical, Inc. 110 South Hill Street South Bend, IN 46617 Certification #LAO00241 574-472-5523 Potable water microbiology</p>	<p>Potable water organic chemistry Potable water inorganic chemistry Radiochemistry</p>
<p>Eurofins Lancaster Laboratories Inc. PO Box 12425 Lancaster, PA 17605-2425 Certification #LAO00338 717-656-2300 Potable water organic chemistry</p>	<p>Potable water inorganic chemistry Non-potable water organic chemistry Non-potable water inorganic chemistry</p>
<p>Eurofins Spectrum Analytical, Inc. 11 Almgren Drive Agawam, MA 01001 Certification #LAO00098 413-789-9018 Potable water microbiology</p>	<p>Potable water organic chemistry Potable water inorganic chemistry Non-potable water microbiology Non-potable water organic chemistry Non-potable water inorganic chemistry</p>
<p>Geolabs, Inc. 45 Johnson Lane Braintree, MA 02184 Certification #LAO00252 781-848-7844</p>	<p>Potable water inorganic chemistry Non-potable water organic chemistry Non-potable water inorganic chemistry</p>
<p>Granite State Analytical Services 22 Manchester Road Unit 2 Derry, NH 03038 603-432-3044</p>	<p>Potable water microbiology Potable water organic chemistry Potable water inorganic chemistry Radiochemistry</p>



Out of State Analytical Laboratories Certified by the RI Department of Health

<p>PACE Analytical Services, Inc. 575 Broad Hollow Road Melville, NY 11747 Certification #LAO00340 631-694-3040</p>	<p>Potable water organic chemistry Potable water inorganic chemistry Non-potable water organic chemistry Non-potable water inorganic chemistry</p>
<p>Hazen Research Inc. 4601 Indiana Street Golden, CO 80403 Certification #LAO00284 303-279-4501</p>	<p>Radiochemistry</p>
<p>International Asbestos Testing Suite B 9000 Commerce Parkway Mount Laurel, NJ 08054 Certification #LAO00305 856 231-9449</p>	<p>Potable water inorganic chemistry Non-potable water inorganic chemistry Environmental Lead</p>
<p>Katahdin Analytical Services PO Box 540 Scarborough, ME 04070 Certification #LAO00344 207-874-2400</p>	<p>Potable water organic chemistry Potable water inorganic chemistry Non-potable water organic chemistry Non-potable water inorganic chemistry</p>
<p>Microbac Laboratories Inc 158 Starlite Drive Marietta, OH 45750 Certification #LAO00310 740-373-4071</p>	<p>Non-potable water organic chemistry Non-potable water inorganic chemistry</p>
<p>Microbac Laboratories 61 Louisa Viens Drive PO Box 700 Dayville, CT 06241 Certification #LAO00346 860-774-6814</p>	<p>Potable water microbiology Potable water organic chemistry Potable water inorganic chemistry Non-potable water microbiology Non-potable water organic chemistry Non-potable water inorganic chemistry Radiochemistry</p>
<p>Morrell Associates Inc. 1661 Ocean Street Marshfield, MA 02050 Certification #LAO00283 781-837-1395</p>	<p>Potable water microbiology</p>
<p>National Testing Laboratories LTD 556 South Mansfield Street Ypsilanti, MI 48197 Certification #LAO00314 734-483-8333</p>	<p>Potable water microbiology Potable water organic chemistry Potable water inorganic chemistry</p>



Out of State Analytical Laboratories Certified by the RI Department of Health

<p>Northeast Environmental Laboratory Inc 41 Dayton Street Danvers, MA 01923 Certification #LAO00325 978-777-4442</p>	<p>Non-potable water inorganic chemistry</p>
<p>Nova Biologicals, Inc. 1775 North Loop 366 F Suite 4 Conroe, TX 777301 Certification #LAO00330 936 756-5333</p>	<p>Potable water microbiology</p>
<p>Pace Analytical Services, Inc. 1638 Roseytown Road Suites 2, 3, & 4 Greensburg, PA 15601 Certification #LAO00342 724 850-5600</p>	<p>Radiochemistry</p>
<p>Pace Analytical Services, Inc. 575 Broad Hollow Road Melville NY 11747 Certification #LAO00340 631 694-3040</p>	<p>Potable water microbiology Potable water organic chemistry Potable water inorganic chemistry Non-potable water microbiology Non-potable water organic chemistry Non-potable water inorganic chemistry</p>
<p>Phoenix Environmental Laboratories, Inc. 587 East Middle Turnpike PO Box 370 Manchester, CT 06040 Certification #LAO00063 860-645-1102</p>	<p>Potable water microbiology Potable water organic chemistry Potable water inorganic chemistry Non-potable water microbiology Non-potable water organic chemistry Non-potable water inorganic chemistry</p>
<p>Proscience Analytical Services Inc. 22 Cummings Park Woburn, MA 01801 Certification # LAO00186 781-935-3212</p>	<p>Environmental Lead</p>
<p>Regional Water Authority 90 Sagent Drive New Haven, CT 06511 Certification #LAO00339 203-401-2700</p>	<p>Potable water organic chemistry Potable water inorganic chemistry</p>
<p>RI Analytical Laboratories 131 Coolidge Street Suite 105 Hudson, MA 01749 Certification #LAO00319 978 568-0041</p>	<p>Potable water microbiology Non-potable water microbiology</p>



Out of State Analytical Laboratories Certified by the RI Department of Health

<p>Schneider Laboratories Inc. 2512 West Cary Street Richmond, VA 23220-5117 Certification #LAO00084 804-353-6778</p>	<p>Potable water inorganic chemistry Non-potable water organic chemistry Non-potable water inorganic chemistry Environmental Lead</p>
<p>Summit Environmental Technologies, Inc. 3310 Win Street Cuyahoga Falls, OH 44223 Certification # LAO00317 303- 253-8211</p>	<p>Potable water organic chemistry Potable water inorganic chemistry Non-potable water organic chemistry Non-potable water inorganic chemistry Radiochemistry</p>
<p>TestAmerica Laboratories, Inc., Nashville 2960 Foster Creighton Drive Nashville, TN 37204-0566 Certification #LAO00268 615-726-0177</p>	<p>Potable water organic chemistry Potable water inorganic chemistry Non-potable water organic chemistry Non-potable water inorganic chemistry</p>
<p>TestAmerica-Burlington Suite 11, 30 Community Drive South Burlington, VT 05403 Certification #LAO00298 (802)923-1020</p>	<p>Potable water organic chemistry Potable water inorganic chemistry Non-potable water inorganic chemistry</p>
<p>TestAmerica Edison 777 New Durham Road Edison, NJ 08817 Certification #LAO00132 732-549-3900</p>	<p>Potable water organic chemistry Potable water inorganic chemistry Non-potable water organic chemistry Non-potable water inorganic chemistry</p>
<p>TestAmerica Pensacola 3355 McLemore Drive Pensacola, FL 32514 Certification #LAO00307 850-474-1001</p>	<p>Non-potable water organic chemistry Non-potable water inorganic chemistry</p>

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

Well Drillers / Pump Installers		
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 ₂ 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

Parameter	Potential Health Risks and Aesthetic effects
Total Coliform, TC	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.
E.coli Bacteria	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> .
Alkalinity	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.
Arsenic	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.
Beryllium	Beryllium is a naturally occurring element found in bedrock. Long term exposure to beryllium can increase the risk of cancer.
Calcium	Calcium is naturally occurring and has a typical range of 10-500mg/L. *refer to <i>Hardness</i>
Chloride	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.
Color	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.
Copper	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.
Foaming Agents	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.
Fluoride	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.
Hardness	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
Iron	Iron is naturally occurring in rock and soil. Iron has no direct health effects but may cause deposit build-up and reddish/brown staining.
Lead	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.
Magnesium	Magnesium is naturally occurring *refer to <i>Hardness</i> .

Guide to Understanding Your Drinking Water Results

Manganese	Higher levels of manganese can cause brown/black staining of laundry and fixtures, and may contribute to an odor.
Nitrate	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.
Nitrite	*See <i>Nitrate</i> .
Odor	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.
pH	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.
Sodium	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 waste.
Specific Conductance	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.
Sulfate	Sulfate is naturally occurring, but a recent EPA/EDC study determined that ingesting levels higher than recommended may cause abdominal discomfort and diarrhea.
Total Dissolved Solids	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.
Turbidity	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.
Volatile Organic Compounds, VOC	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

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/wg/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

Sources:

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

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