



# AIR & WATER QUALITY INC.

160 US Route 1 Freeport, ME 04032  
388 Bangor Road Ellsworth, Me 04605

Water Test Report For:

**NOTE: NO HEALTHRELATED PARAMETERS HAVE BEEN CHECKED**

Sample Location:

Sample(s) Date:

Sample(s) Description<sup>1</sup>:

Parameter	Results <sup>2,3</sup>	Recommended Limits
pH		6.5-8.5
Iron		Less than 0.30 mg/L
Manganese		Less than 0.05 mg/L
Hardness		Less than 3 Grains/Gallon
TDS		Less than 500 mg/L

<sup>1</sup> Separate multiple samples by commas here and in results column.

<sup>2</sup> Except for hardness and pH all values are in mg/L. Hardness is in Grain/gallon.

<sup>3</sup> See what your results mean on the following page.



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## What the results mean-

**pH** – Generally, pH should be between 6.5 and 8.5. Low pH values can cause corrosion that will show up as blue/green staining. One will sometimes see blue/green staining at pH values as high as 7.4. Before attempting to correct the pH to solve these problems, one should have the chloride concentration checked.

High pH can cause the water to feel slippery. Very high levels can cause corrosion and blue/green staining.

Low or high pH is not in and of itself a health risk. Generally, it is only addressed if there is corrosion. The corrosion can damage plumbing, appliances and fixtures as well as cause high levels of lead and copper in the water.

**Iron** –Iron above 0.3 mg/L may cause staining in the fixtures and the laundry.

**Manganese**- Manganese above 0.05 mg/L can also dull the laundry and may cause a noticeable film or a slick on the surface of the water in the toilet reservoir tank. At levels above .5 mg/L, the State of Maine considers it a health concern.

**Hardness** – Hardness above 3 Grains/gallon will cause scaling in water heating appliances (electric hot water heaters, boiler coils, and indirect fired hot water heaters like BoilerMates and SuperStors). It will also create white scale on the tips of faucets and shower heads along with creating hard water build-up on fixtures and reduce the effectiveness of laundry detergent and other soaps. It will also show up and what appears to be sand in the faucet and washing machine strainers.

**TDS(Total Dissolve Solids)**-High concentrations of TDS usually are the result of salt intrusion into the well and potentially high chlorides. High TDS will cause the water to taste salty and will cause it to be corrosive to the plumbing.

**Copper** - High copper concentrations indicate a corrosion problem and will show up as blue/green staining in the fixtures. Very high levels can cause indigestion. If you have high copper levels we recommend you do a first draw lead test through a certified lab. We can provide you with a test kit or you can call a local lab.

**Chlorides** - High chloride concentrations will cause the water to be corrosive and taste salty.