

# PRIMARY CONTAMINANTS:

## Will Directly Harm The Human Body

Key words here - Radon, Radiation, Lead, Arsenic, MTBE, Benzene, Bacteria, E. Coli, Cancer water, Fuel contamination, Mercury-lead-Arsenic poisoning/in blood.



## Bacteria - *Total Coliform And E. Coli Are In This Scan.*

- **Total Coliform:** is an indicator of surface water contamination from a broken well cap, line or other source such as the aquifer. Total Coliform level can make you very sick and lead to intestinal disorders and reduced immune response.
- **E. Coli:** Can cause severe illness and possibly death in some cases. E. Coli is from fecal matter from a surface contamination, septic seepage, or contaminated water source. E. Coli Contamination can cause significant health problems in children and adults
- **Nitrates-** naturally occurring at low levels, high levels exist due to septic seepage fertilizer and farming. Very toxic to infants and young children. Reduces the ability of blood to carry oxygen. Blue baby syndrome.
- **Arsenic** - A naturally occurring metal in well water. Arsenic can cause poisoning, organ failure and death if untreated. Arsenic accumulates in the body and levels increasing can cause significant health problems in children and adults.
- **Lead** - A metal associated with copper plumbing joints in homes. Water, when corrosive (low pH) can cause erosion of plumbing joints and mobilizes lead into drinking water. Lead builds up in the body over time and can lead to organ failure and other health conditions. Lead accumulates in the body and levels increasing can cause significant health problems in children and adults.
- **Mercury-** A metal used in farming and industry in New Jersey-Very Toxic and can lead to organ damage and death if untreated. Mercury accumulates in the body and levels increasing can cause significant health problems in children and adults

**Volatile Organic Compound Scan-** also known as carcinogens. These compounds have been directly linked to cancer in children and adults. Volatile organic compounds are things such as: Gasoline, Home heating oil, de greasers, glues, pipe solvents and many other common household products. These compounds enter well water from improper disposal such as flushing into a septic, leaking underground fuel tanks and farm-industrial activity.

**Gross Alpha Scan-** Gross alpha testing is a measure of radioactivity. Radioactivity is caused by natural metals in wells such as Radium, Uranium and Radon. All of the radioactive species can cause various types of organ cancer at high levels. High readings of Gross Alpha can cause significant health problems in children and adults

# SECONDARY CONTAMINANTS:

Aesthetic Concerns Odor, Discoloration, Taste, Corrosive, Or Scaling Build Up.

Key Words here: Odors in Water, Staining, Hardness, Scaling, Dirty Water, Foul Water, Discoloration in Water, Treatment,



*This area of testing should be done prior to purchasing water treatment systems. A lab is the best place to start as we don't sell treatment systems-unbiased source!*

- **Iron-** Causes brown staining on porcelains and stainless steel, can cause a metallic taste
- **Manganese-** Causes a black to dark brown stain on porcelains and stainless steel, can cause a metallic taste
- **PH-** is a measure of acid or alkaline. If water is acidic it will leach copper and lead from plumbing and place it into drinking water. If water is alkaline it will deposit mineral on plumbing making pipes clog or reduce flow.
- **Hardness-**White deposits on glasses, steel and faucets-difficult to remove and clean.
- **Copper-** Results in a blue staining and usually indicates corrosion from a low pH.
- **Standard Plate count (SPC)-** Non-Coliform Bacteria that cause SIGNIFICANT odors in conjunction with SULFATE. Also can cause slimy deposits on faucets, showerheads and tiles. Iron Bacteria can plug and foul water treatment systems.

# TEST PACKAGES

Most Of The Packages Are Designed To Best Address Problem Areas Such As Health Scans, Or Aesthetic Concerns.



- **Private Well Full Scan**
  - Will be done each 3 to 5 years, if a well has never been tested, new wells and property transfers. This test battery is defined by NJDEP and local departments of health.
  - \*\*\*\*One county-Ocean has additional testing and costs \$649---Please make note.\*\*\*
- **Basic Level 1**
  - Annual test should be done in conjunction with any areas of prior failure.
- **Basic Level 2**
  - Same as above but includes Iron and Manganese-stains
- **Primary Screen**
  - Least expensive scan for health concerns.
- **Secondary Screen**
  - Addresses basic concerns in appearance and staining/discoloration can be used to determine water treatment. May be in addition to health/full scan.
- **Water pre-treatment screen**
  - Best option to determine water treatment in addition to full scan.
- **Public water 1**
  - City Water or public water test-covers minimal differences from residence to residence and can determine poor public water plumbing.
- **Public water 2**
  - City Water or public water test-covers minimal differences from residence to residence and also include items to identify water treatment to improve water quality.
- **Odor Scan**
  - Used to determine the source / type of odors in water