VERMONT
DEPARTMENT OF HEALTH

Inorganic Chemical Test (Kit C)

The Health Department recommends testing your private well water for certain inorganic chemicals every five years. If your test report shows the ***final result*** is higher than the ***limit***, consider treatment to lower or remove the chemical from your water.

Arsenic has been linked to increased lifetime risk for bladder, lung or skin cancer. The limit in drinking water is 0.010 milligrams per liter (mg/L).

Chloride does not cause health problems, but high levels can be a sign of other problems. High levels of chloride – around 250 mg/L - can also give water an unpleasant taste.

Copper is an important mineral for the formation of red blood cells. But high levels in water can cause stomachaches, vomiting, or diarrhea, especially in young children. Copper can stain plumbing fixtures and give water a metallic taste. The limit in drinking water is 1.3 mg/L.

Fluoride is a mineral found in nature that helps the body resist tooth decay. Knowing the level of fluoride in your well water will help you adjust infant formula or children's supplements. The limit in drinking water is 4.0 mg/L.

Hardness causes no known health risks but can reduce lathering of soap and form buildup in water heaters, cookware and plumbing. There are no health limits for water hardness.

Iron is an essential element and does not generally cause health effects. However, high amounts can cause a metallic taste and stain clothing, sinks, toilets and bathtubs. The limit in water is 0.3 mg/L.

Lead is a toxic metal that can come from older plumbing. It can hurt the brain, kidneys and nervous system, especially in children and pregnant women. The limit in drinking water is 0.015 mg/L. Because there is no safe level of lead in the body, Vermont has set a health advisory level of 0.001 mg/L.

Manganese is an essential element, but high amounts could affect the nervous system. It can discolor water and stain clothing and bathroom fixtures grey/black – usually when levels are higher than 0.050 mg/L. Vermont has set a health advisory level of 0.300 mg/L.

Nitrate found at high levels can cause an oxygen deficiency in young infants' blood, resulting in a bluish skin tone. In adults, nitrate can form chemicals called nitrosamines, which are linked to cancer. The limit for nitrate in water is 10.0 mg/L.

Sodium can occur naturally in water. High levels of sodium can make water taste salty, corrode metal piping. Salt from road de-icing can cause high sodium levels in wells near roads. The limit in drinking water is 250 mg/L.

Uranium is a radioactive element. Most uranium that enters your body is eliminated, but a small amount is absorbed and can go through the bloodstream and kidneys. Elevated levels can increase a person's risk of kidney damage or lifetime risk of cancer. The limit in drinking water is 0.020 mg/L.

FOR MORE INFORMATION:

For more information, visit healthvermont.gov/water-contaminants or contact the Drinking Water program at 800-439-8550 or 802-863-7220.

How to Read Your Water Test Results

VERMONT
DEPARTMENT OF HEALTH LABORATORY

359 SOUTH PARK DR
COLCHESTER, VT 05
(802) 338-4724 or (800) 660-99
www.healthvermont.g

This unique number is used to identify your sample results.

Results Report

State Health Dept # :	**18-IC-03319**
Report Status :	**Final**
Date Report Released :	**07/13/2018**

Report To
ATTN OF
Address

WSID
Account Name
Date Received 07/09/2018
Time Received 10:15
Approved Date 07/13/2018

Sample Desc. KIT C
Collection Date 07/09/2018
Collection Time 06:30

The **final result** is how much of a chemical is in your drinking water.

Units are measured in milligrams per liter (mg/L).

The **limit** is the maximum amount of a chemical that is allowed in your drinking water based on federal or state standards. The unit of measure is the same as for the final result (mg/L). If the **final result** is above the **limit**, consider treating your water to reduce or remove the chemical.

Test ***Anions*** — EPA 300.0

Analyte	Final Result	Units	Limit	
Fluoride	4.37	mg/L	4.0	MCL
Chloride	28	mg/L	250	SMCL
Nitrite as N	<0.10	mg/L	1.0	MCL
Nitrate as N	<0.50	mg/L	10.0	MCL

** See below for Nitrate and/or Nit e.

The symbol "<" means "less than." Here, the nitrate level is less than 0.50.

Test ***Hardness (EDTA)*** — **Date/Time of Analysis** 07/09/2018 — **Test Method** SM 2340 C

Analyt	Units	Limit
Hardne	mg/L	*

* < 5 m

Test ***Iron by Flame AA*** — **Date/Time of Analysis** 07/10/2018 11:50 — **Test Method** SM 3111 (B)

Analyte	Final Result	Units	Limit
Iron	<0.10	mg/L	0.3 SMCL