



Minimum suggested post sterilization testing* (chlorine sterilants only)

Analyses included	Method	Price
Anions by chromatography; Nitrate, Sulfate, Chloride, Bromide, Fluoride (ANIONS)	EPA 300.1	
Total Coliforms (with E. coli)	SM 9221-B	
Total heterotrophic bacteria plate counts	SM 9215-A	
Hardness (calc.)	SM 2340-B	
Metals (Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, P, K, Se, Na, Ti, V, Zn)	EPA 200.7	
(add individual analyses if needed)		
Package price		\$53.00
*Call Callegari for more information		

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Testing Your Well Water For Safety

The Louisiana Department of Health and Hospitals recommends testing of private well water for total coliform bacteria (fecal coliforms and E. coli) following flooding and total coliforms and nitrate annually. Additional analyses may be wise after a flood or chemical release, depending on several factors that could provide evidence of contamination.

Before sampling after a flood, answer these questions:

- What parish is the sample from?
- How old is the residence and when was the well constructed?
- From what source did the flooding occur—pond, river, salt or brackish water?
- How near a municipality is your well?
 What municipality?
 Was the municipality flooded?
 Were fuel stations with underground tanks flooded near your residence?
 Were chemical storage facilities or points of sale flooded near your residence, and what chemicals may have been stored there?
- What is the land used for in the immediate location of the well?
 Farming? What crops?
 Confined animal operations? What animals?
 Industrial activities? What kind?

- Have there been unexpected chemical emissions from nearby industries? Before or during the flood?
- Is there a noticeable color or odor change from the water after 2-3 minutes of purging?
- Have contaminants been detected in nearby wells?

Taking Your Own Samples From the Well

First, be sure to contact us before sample collection to determine appropriate analyses and necessary sample size:

W. A. Callegari Environmental Center
Phone: (225) 765-5155
Fax: (225) 765-5158
David Schellinger, Lab Manager
 (dschellinger@agcenter.lsu.edu) or
Javed Iqbal, Quality Assurance Officer
 (jiqbal@agcenter.lsu.edu)

- Obtain clean plastic or glass containers, washed with a phosphate-free soap, rinsed with good quality filtered water and air-dried. Never remove the cap until taking sample.
- Never touch the inside of the lid or container.
- Samples must be obtained from an inside faucet.

- Sterilize the faucet inside and out. You can do this one of two ways: Use a 3-inch flame from a butane torch circling the inside and outside of the opening several times OR use chlorine bleach with a brush or rag.
- Purge the water column by fully opening the faucet for 2-3 minutes (hand pumps for 5-10 minutes).
- Remove lids from sample containers and fill ¾ full and replace lids immediately.
- Immediately store samples on ice and make sure the samples are delivered to the Callegari lab within 24 hours.

Recommended analyses along with pricing are in this publication. Please include check or money order with your samples and include the following information:

Name _____

Address _____

City _____ State _____ Zip _____

Phone _____ Fax _____

E-mail _____

Overnight delivery of samples to:

**W. A. Callegari Environmental Center
1300 Dean Lee Drive
Baton Rouge, LA 70820**

Water Well Purification

How do I clean and disinfect my well after a flood?

After a flood, it is important to take every precaution to ensure the safety of your well water. First, it is necessary to inspect and clean the well and pump before using them. You may want to have your water well driller or contractor check out the well before using it.

Do not turn on the pump until an electrician or well contractor has checked the wiring because of the risk of electrical shock. After the proper inspections have taken place, run the pump and discard the water until the well water runs clear.

Most important, after a flood, you should disinfect the well. This can be accomplished by following the procedures below; however, it is advisable to hire a well contractor to disinfect the well for you.

Pump the well for several hours to reduce the cloudiness and contaminant levels in the water.

Pour 4 gallons of a chlorine bleach solution into the well. Chlorine bleach solution consists of 1 gallon of bleach with 3 gallons of clean water. Open every faucet and pump the water until the water coming out of the faucet smells like chlorine, and then turn off each faucet. If you do not smell chlorine at the faucet, add a little more chlorine solution until the smell is detected.

Let the system sit for 24 hours.

Open the faucets and run the water until the chlorine smell disappears.

Have the water sampled and tested. The water is not safe for drinking until lab results show no indication of total coliform bacteria. You can discuss the final lab results with the lab or local parish health unit. It is important to remember that disinfection will not remove chemicals that may have contaminated your well during a flood.

Well Water Tests

Individual Analyses	Method	Price
Anions by chromatography; Nitrate, Sulfate, Chloride, Bromide, Fluoride (ANIONS)	EPA 300.1	\$8.00
Nitrite (NO ₂)	EPA 300.1	\$7.00
Ortho-Phosphate (PIC)	EPA 300.1	\$7.00
Silica (SiO ₂)	SM 4500-SiO ₂ -C	\$7.00
Specific Conductance (electrical conductivity) (EC)	SM 2510-B	\$5.00
Ammonia (NH ₃)	SM 4500-NH ₃ -E	\$5.00
Fecal Coliforms (Fecals)	SM 9221-E	\$8.00
E. Coli (E.coli)	SM 9221-F	\$15.00
Total coliform test	SM 9221-B	\$23.00
Total heterotrophic bacteria plate count	SM 9215-A	\$8.00
Semi-volatile organic compounds (fuels)	EPA 3511/8015	\$15.00
Non-volatile organic compounds (oils/parafins)	EPA 3511/8015	\$15.00
Volatile organic compounds (VOC)	EPA 3511/8015	\$15.00
Metals (Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, P, K, Se, Na, Ti, V, Zn)	EPA 200.7	\$13.00
Turbidity	SM 2130-B	\$5.00
Hardness (calc.)	SM 2340-B	\$5.00
Salinity	SM 2520-B	\$5.00
Pesticide/herbicide speciation	EPA 507/508	\$75.00

Basic Well Water Package

Analyses included	Method	Price
Anions by chromatography; Nitrate, Sulfate, Chloride, Bromide, Fluoride (ANIONS)	EPA 300.1	
Nitrite (NO ₂)	EPA 300.1	
Silica (SiO ₂)	SM 4500-SiO ₂ -C	
Specific Conductance (electrical conductivity) (EC)	SM 2510-B	
Turbidity	SM 2130-B	
Ammonia (NH ₃)	SM 4500-NH ₃ -E	
Total Coliforms (with E. coli)	SM 9221-B	
Volatile organic compounds (VOC)	EPA 3511/8015	
Metals (Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, P, K, Se, Na, Ti, V, Zn)	EPA 200.7	
Salinity	SM 2520-B	
Pesticide/herbicide speciation	EPA 507/508	
Package price		\$165.00

Hydrocarbon Package

Analyses included	Method	Price
Semi-volatile organic compounds (fuels)	EPA 3511/8015	
Non-volatile organic compounds (oils/parafins)	EPA 3511/8015	
Volatile organic compounds (VOC)	EPA 3511/8015	
Pesticide/herbicide speciation	EPA 507/508	
Package price		\$115.00