

## Types of Containers



**Coliform Bacteria Bottles** - This 120 ml bottle is designed for the collection of water samples for coliform bacteria. This bottle contains sodium thiosulfate (either in a white pill or powder) which deactivates chlorine up to 5 ppm. This bottle should be filled to at least the 100 ml line or above and returned to the lab within 24 hours of sampling. **Note:** Insufficient volume will be flagged.

See below for detailed instructions for sampling coliform bacteria.



**Lead and Copper Bottle (1 L)** - This one liter opaque bottle is used for the collection of lead and copper samples. Lead and copper in water is usually caused by the corrosion of plumbing or equipment. Therefore, the best sample for detection is a **"FIRST DRAW"** (the water should stand motionless in the plumbing for a minimum of 6 hours before the sample is collected).

After the water has been sitting in the plumbing for at least 6 hours, collect sample immediately in a one liter bottle provided. Collect from the cold water tap in either the kitchen or bathroom filling to the neck. Sample must be received by the lab within 14 days of sample collection.



**General Bottle (250 ml)** - This 250 ml opaque bottle is a general purpose container most often used for **Nitrate and Arsenic**. White Water Associates can perform multiple tests from this single bottle, or we may need more than one of these.

EXCEPT: Coliform Bacteria, which requires the above shown sterile bottle, and Lead and Copper for residential testing requires a one liter bottle.

Fill the General Bottle from cold water tap to the top without overflowing. Recap the bottle.

## **Bacteria Sampling Instructions**

- Sample must be taken from a tap closest to the water source (before water softener).
- Water tap must be free of aerators, strainers, hoses, filters, etc.
- Disinfect the water tap with bleach or alcohol in a shallow glass for 1-2 minutes.
- Wash hands thoroughly, do not open sample bottle until ready to proceed.
- The COLD water tap must be used. Run the water for at least 2 minutes.
- Do NOT touch the inside of the sample bottle or cap. Do NOT set cap down on any surface.
- Do NOT rinse sample container (white pill or powder is needed for coliform test).
- Fill sample container to just over the 100 ml line. We have to flag if under 100 ml.
- Place bottle and Chain of Custody (COC) Form in mailing packet to send to lab with check for payment made out to White Water Associates.
- For tests that require the small insulated boxes please add ice, in a small sealable bag.

**The sample collector is responsible for packaging and returning the samples to the laboratory for analysis. All samples collected for bacteria testing, must be received by the laboratory within 24 hours. This means you must send your sample the same day you collect it. Do not mail on a Saturday or when the next day is a holiday. Use Priority Mail U.S. Postal Service.**

# COMMON DRINKING WATER TESTS AND KITS

DW-170407

## Total Coliform and E. coli bacteria in Drinking Water - \$17

General indicator of sanitary conditions, common in soil, vegetation and surface water. Most coliform bacteria do not cause illness. But their presence can be a health concern. Symptoms include; nausea, vomiting, fever, and diarrhea. Results are noted as present or absent.

## Enumerated Fecal Coliform bacteria for Surface or Wastewater - \$20

## Enumerated E. coli bacteria for Surface or Wastewater - \$20

<p><b>Tests in this box and above do <u>NOT</u> need to be packed with ice:</b></p> <p style="text-align: center;"><b>Hardness, Sodium, Iron - \$15<sup>P</sup></b></p> <p>Hardness can cause scaling of water fixtures. Sodium is a common salt forming element. Iron can cause staining, turbidity, taste and odor.</p> <p style="text-align: center;"><b>Arsenic - \$15</b></p> <p>Naturally occurring element, causes skin damage, problems with circulatory system, carcinogen.</p> <p style="text-align: center;"><b>Lead/Copper in drinking water - \$25</b></p> <p>Lead, caused usually from corrosion of plumbing, can cause delays in physical/mental development, kidney problems, and cardiovascular effects. Copper, created by corrosion of plumbing, can cause gastrointestinal distress. It has also been associated with liver damage and kidney disease. (Sample should be <u>FIRST DRAW</u>.)</p> <p style="text-align: center;"><b>Other Metals (such as Cadmium, Chromium, etc.) - \$15/metal</b></p>	<p><b>Tests in this box <u>DO</u> need to be packed with <u>ICE</u>:</b></p> <p style="text-align: center;"><b>Nitrate/Nitrite as a combo - \$15</b></p> <p>Commonly found in fertilizers/human waste, can cause serious health problems for infants.</p> <p style="text-align: center;"><b>Nitrate Nitrogen - \$15<sup>P</sup></b></p> <p style="text-align: center;"><b>Nitrite Nitrogen - \$15<sup>P</sup></b></p> <p style="text-align: center;"><b>Fluoride - \$25<sup>P</sup></b></p> <p>Sometimes used as an additive, low levels promote strong teeth. High levels can cause bone disease/mottled teeth.</p> <p style="text-align: center;"><b>Sulfate - \$15<sup>P</sup></b></p> <p>Taste, "rotten egg" odor, and can cause a laxative effect.</p> <p style="text-align: center;"><b>Chloride - \$15<sup>P</sup></b></p> <p>Can give a salty taste, also contributes to dissolved solids.</p> <p style="text-align: center;"><b>Partial Chem List - \$100 (six items indicated with <sup>P</sup>)</b></p>
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### Water Testing Kits – Most Popular, Shipped to You! After sampling, these kits need to be PACKED WITH ICE.

**Annual Well Test - Arsenic, Coliform Bacteria, E. coli, Nitrates - \$52**

**Real Estate - Arsenic, Coliform Bacteria, E. coli, Lead, Nitrates - \$67**

**Home Water Quality Test- Arsenic, Coliform Bacteria, E. coli, Nitrates, Chloride, Copper, Fluoride, Hardness, Lead, pH, Iron, Sodium, Sulfates - \$155**

### SEND BOTTLES, CHAIN OF CUSTODY, and PAYMENT to:

**White Water Associates, P.O. Box 27, 429 River Lane, Amasa, Michigan 49903**

Call us with any questions at 906-822-7889 or visit [www.white-water-associates.com](http://www.white-water-associates.com)

**Standard turnaround time is 10 Business days.**

**Open Monday-Friday 7:30 am-4:30 pm CST, please plan accordingly for weekends and Holidays.**

#### SAMPLE CHAIN-OF-CUSTODY

- Fill the following:**  
 Client Name/Bill To  
 Address  
 City, State, Zip  
 Email (optional)  
 Telephone  
 Project (optional)  
 Sampler Name  
 County of Location  
 Sampler Signature  
 Sample ID, Date, Time  
 Sample Location (optional)  
 Sample Matrix  
 Preservatives (if known)  
 Analysis Requested  
 Instructions to WWA  
 Relinquished by, date/time

Job # (WWA office use): \_\_\_\_\_ CHAIN-OF-CUSTODY RECORD

CLIENT NAME / BILL TO John Doe			EMAIL ADDRESS jdoe@amasa.com			<b>WHITE WATER ASSOCIATES, INC.</b> <small>429 River Lane, P.O. Box 27, Amasa, Michigan 49903                  Phone: (906) 822-7373, Fax: 7977                  Web: white-water-associates.com</small>								
ADDRESS PO Box 49			TELEPHONE 906-822-7889											
CITY Amasa	STATE MI	ZIP 49903	CONTRACT / PO / PROJECT NAME / WSSN # Drinking Water			ANALYSIS TYPE REQUESTED (Attach list if needed)								
SAMPLER NAME (print first/last name) John Doe		COUNTY OF LOCATION Iron	PAGE 1	OF 1		<small>Indicate if more than one page of COC records used</small> Instructions to White Water Send my report by: <input checked="" type="checkbox"/> email <input type="checkbox"/> mail Unless otherwise noted, drinking water reports are sent to MDEQ/Health Dept. REMARKS (Note any special instructions provided by client or conditions of receipt noted by WWA lab staff):								
SAMPLER'S SIGNATURE <i>John Doe</i>			Check off preservatives for each bottle with an "x" upon arrival and indicate total number of bottles. WWA database contains bottle preservation details.											
SAMPLE ID AND DESCRIPTION Containers for each sample may be combined on one line.	DATE	TIME	SAMPLE MATRIX				CONTAINERS / PRESERVATIVES				Total Number of Containers	Total Coliform Bacteria - pos/neg		
			Drinking water	Aqueous	Soil	Other:	Unpreserved	H2SO4	HNO3	HCl			NaOH	ZnAc/NaOH
Kitchen	2/10/2017	09:00	X								X	1	X	
29 Cherry Lane														
Amasa, Michigan 49903														
Relinquished by: John Doe			Date: 2/10/17	Time: 10:00	Received by:			Date:	Time:	Comments / Sample temperature on receipt / Ice Cooler (Circle) (Also note any residual chlorine.)				
Relinquished by:			Date:	Time:	Received by:			Date:	Time:					