

# Contaminants Monitoring

## Community Water Systems

### Coliform

Population Served*	Minimum Monthly Samples	Population Served*	Minimum Monthly Samples
25 to 1,000	1	4,101 to 4,900	5
1,001 to 2,500	2	4,901 to 5,800	6
2,501 to 3,300	3	Greater than above, Contact IDEM or refer to	
3,301 to 4,100	4	327 IAC 8-2-8(b)	

\*Population is based on number of service connections times 2.7 occupants

If sample is positive (unsatisfactory), repeat sampling 3 times (4 times if only 1 sample is collected monthly), with 1 sample from original sample point, 1 collected within 5 service connections upstream and 1 within five service connections downstream. If a 4th repeat sample is required then it may be collected anywhere in the distribution system. All repeat samples **must** be collected on the same day. If any repeat sample is positive, there is a Maximum Contaminant Level (MCL) violation and public notification is required. Five samples must be collected the following month.

### Nitrate (ground water)

One sample collected per year. If sample is higher than 10 mg/l, public notification is required, and children younger than 6 months of age may not consume the water. If sample is higher than 20 mg/l, then sampling must be conducted quarterly.

### Nitrate (surface water)

If consistently below 5 mg/l, sampling may be conducted 1 time per year. If 5 mg/l or higher, quarterly sampling is required. If sample is higher than 10 mg/l, public notification is required, and children younger than 6 months of age may not consume the water.

### Chemical Contaminants

Sampling requirements for inorganic chemicals (IOCs) that are naturally occurring contaminants, volatile organic compounds (VOCs), such as industrial solvents and synthetic organic compounds (SOCs), such as pesticides and herbicides, vary by water system. To determine your system's exact monitoring frequency, contact the Drinking Water Branch at (317) 308-3282.

### Lead and Copper

First year sampling is every 6 months. Sampling reduced to annually next 3 years, then once every 3 years.

Initial number of samples	Reduced number of samples	Ninety percent of samples must be below action levels. Lead action level is 0.015 mg/l. Copper action level is 1.3 mg/l. Water systems with samples above either action level must conduct treatment remediation and make public notice.
<101	5	
101-500	5	
501-3,300	10	
3,301-10,000	20	

## Transient Noncommunity Water Systems

### Coliform

One sample collected per quarter. If sample is positive, repeat sampling 4 times on same day, with 1 sample from original sample point and the other 3 from anywhere else in the system. If any repeat sample is positive, there is a Maximum Contaminant Level (MCL) violation and public notification is required. Five samples must be collected the following month.

### Nitrate

One sample collected per year. If sample is higher than 10 mg/l, public notification is required, and children younger than 6 months of age may not consume the water. If sample is higher than 20 mg/l, then sampling must be conducted quarterly.

## Nontransient Noncommunity Water Systems

### Coliform (ground water)

Same requirements as transient noncommunity water systems.

### Coliform (surface water)

Same requirements as community water systems.

### Nitrate (ground water)

Same requirements as community water systems.

### Nitrate (surface water)

Same requirements as community water systems.

### Chemical Contaminants

Same requirements as community water systems.

### Lead and Copper

Same requirements as community water systems.

**Note:** The information in this poster generally applies to most, but not necessarily all water systems, due to special circumstances at some systems. The poster is only a guide and not all monitoring requirements are listed. Please refer to your system's Standardized Monitoring Framework or contact IDEM's Drinking Water Branch, Field Inspection Section at 317-232-8608 or 800-451-6027 for more information.

