

## **Part D**

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## **Appendices**

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Table of Contents: Part D

- D. Appendices..... 83
  - D.1. Routine Monitoring Frequency for Non-Seasonal Ground Water Non-Community Water Systems Serving ≤ 1,000 Persons (40 CFR 141.854) ..... 83
  - D.2. Routine Monitoring Frequency for Seasonal Ground Water Non-Community Water Systems Serving ≤ 1,000 Persons (40 CFR 141.854(i)) ..... 86
  - D.3. Routine Monitoring Frequency for Ground Water Community Water Systems Serving ≤ 1,000 Persons (40 CFR 141.855)..... 89

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## D. Appendices

### D.1. Routine Monitoring Frequency for Non-Seasonal Ground Water Non-Community Water Systems Serving ≤ 1,000 Persons (40 CFR 141.854)

Baseline frequency: one sample per calendar quarter

Reduced frequency: one sample per year

Increased frequency: one sample per month or one sample per quarter

**Water system should check with their drinking water primacy agency to determine if they are allowed to reduce their monitoring frequency below their baseline monitoring frequency.**

#### **REDUCED MONITORING**

##### ***Quarterly to Annual***

The primacy agency may allow a system to monitor less frequently than once per quarter to once per year if the system meets the following criteria:

1. A clean compliance history for a minimum of 12 months;
2. The most recent sanitary survey shows that the system is free of sanitary defects or has corrected all identified sanitary defects, has a protected water source and meets approved construction standards; and
3. An annual site visit from the primacy agency within the last 12 months and system has corrected all identified sanitary defects. A voluntary Level 2 assessment can be substituted for the annual site visit.

#### **INCREASED MONITORING**

##### ***Quarterly to Monthly***

The system must increase to monthly monitoring from quarterly monitoring if any of the following conditions occur:

- A Level 2 assessment or two Level 1 assessments are triggered in a rolling 12-month period
- An *E. coli* MCL violation
- A coliform treatment technique violation
- Two monitoring violations in a rolling 12-month period
- One monitoring violation and one Level 1 assessment in a rolling 12-month period

### ***Annual to Monthly***

The system must increase to monthly monitoring from annual monitoring if any of the following conditions occur:

- A Level 2 assessment or two Level 1 assessments are triggered in a rolling 12-month period.
- An *E. coli* MCL violation.
- A coliform treatment technique violation.

### ***Annual to Quarterly***

The system must return to quarterly monitoring from annual monitoring if the following condition occurs:

- One monitoring violation.

## **RETURN TO QUARTERLY OR ANNUAL MONITORING AFTER BEING TRIGGERED INTO MONTHLY MONITORING**

### ***Monthly to Quarterly***

The primacy agency may reduce a system's monitoring frequency to no less than quarterly monitoring if the system demonstrates that it meets the following criteria:

1. An approved sample siting plan that designates the time period for monitoring based on site-specific considerations (for example, during periods of highest demand or highest

vulnerability to contamination). Compliance samples must be collected during this time period.

2. Within the last 12 months, a completed sanitary survey or a site visit by the primacy agency or a voluntary Level 2 assessment by a party approved by the primacy agency, be free of sanitary defects and have a protected water source.
3. A clean compliance history for a minimum of 12 months.

### ***Monthly or Quarterly to Annual***

The primacy agency may reduce a well-operated system's monitoring frequency to no less than annual monitoring if the system demonstrates that it meets the following criteria:

1. The criteria for reduced monitoring from monthly to quarterly.
2. An annual site visit by the primacy agency and correction all identified sanitary defects. A voluntary Level 2 assessment by a party approved by the primacy agency may be substituted for the primacy agency annual site visit in any given year.
3. Has in place or has adopted one or more additional enhancements to the water system barriers to contamination.
  - Cross connection control, as approved by the primacy agency.
  - An operator certified by an appropriate primacy agency certification program or regular visits by a circuit rider certified by an appropriate primacy agency certification program.
  - Continuous disinfection entering the distribution system and a residual in the distribution system in accordance with criteria specified by the primacy agency.
  - Demonstration of maintenance of at least a 4-log removal or inactivation of viruses as provided for under § 141.403(b)(3) of the Ground Water Rule.
  - Other equivalent enhancements to water system barriers as approved by the primacy agency.

## D.2. Routine Monitoring Frequency for Seasonal Ground Water Non-Community Water Systems Serving $\leq 1,000$ Persons (40 CFR 141.854(i))

Baseline frequency: one sample per month

Reduced frequency: one sample per calendar quarter or one sample per year

Increased frequency: one sample per month or one sample per quarter

**Water system should check with their drinking water primacy agency to determine if they are allowed to reduce their monitoring frequency below their baseline monitoring frequency.**

### REDUCED MONITORING

#### ***Monthly to Quarterly***

The primacy agency may reduce a system's monitoring frequency to no less than quarterly monitoring if the system demonstrates that it meets the following criteria:

1. An approved sample siting plan that designates the time period for monitoring based on site-specific considerations (for example, during periods of highest demand or highest vulnerability to contamination). Compliance samples must be collected during this time period.
2. Within the last 12 months, a completed sanitary survey or a site visit by the primacy agency or a voluntary Level 2 assessment by a party approved by the primacy agency, be free of sanitary defects and have a protected water source.
3. A clean compliance history for a minimum of 12 months.

#### ***Monthly or Quarterly to Annual***

The primacy agency may reduce a well-operated system's monitoring frequency to no less than annual monitoring if the system demonstrates that it meets the following criteria:

1. Meet the criteria for reduced monitoring from monthly to quarterly.



2. An annual site visit by the primacy agency and correction of all identified sanitary defects. A voluntary Level 2 assessment by a party approved by the primacy agency may be substituted for the primacy agency annual site visit in any given year.
3. Has in place or has adopted one or more additional enhancements to the water system barriers to contamination.
  - Cross connection control, as approved by the primacy agency.
  - An operator certified by an appropriate primacy agency certification program or regular visits by a circuit rider certified by an appropriate primacy agency certification program.
  - Continuous disinfection entering the distribution system and a residual in the distribution system in accordance with criteria specified by the primacy agency.
  - Demonstration of maintenance of at least a 4-log removal or inactivation of viruses as provided for under § 141.403(b)(3) of the Ground Water Rule.
  - Other equivalent enhancements to water system barriers as approved by the primacy agency.

## **RETURN TO MONTHLY OR QUARTERLY**

### ***Quarterly to Monthly***

The system must return to monthly monitoring from quarterly monitoring if any of the following conditions occur:

- A Level 2 assessment or two Level 1 assessments are triggered in a rolling 12-month period.
- An *E. coli* MCL violation.
- A coliform treatment technique violation.
- Two monitoring violations in a rolling 12-month period.
- One monitoring violation and one Level 1 assessment in a rolling 12-month period.

### ***Annual to Monthly***

The system must return to monthly monitoring from annual monitoring if any of the following conditions occur:

- A Level 2 assessment or two Level 1 assessments are triggered in a rolling 12-month period.
- An *E. coli* MCL violation.
- A coliform treatment technique violation.

### ***Annual to Quarterly***

The system must return to quarterly monitoring from annual monitoring if the following condition occurs:

- One monitoring violation.

### D.3. Routine Monitoring Frequency for Ground Water Community Water Systems Serving $\leq 1,000$ Persons (40 CFR 141.855)

Baseline frequency: one sample per month

Reduced frequency: one sample per calendar quarter

**Water system should check with their drinking water primacy agency to determine if they are allowed to reduce their monitoring frequency below their baseline monitoring frequency.**

#### **REDUCED MONITORING**

##### ***Monthly to Quarterly***

The primacy agency may reduce the monitoring frequency of a well-operated system to no less than once per quarter if the system meets the following criteria:

1. Compliance with the primacy agency-certified operator provisions.
2. A clean compliance history for a minimum of 12 months.
3. The most recent sanitary survey shows that the system is free of sanitary defects (or has an approved plan and schedule to correct them and is in compliance with the plan and the schedule), has a protected water source and meets approved construction standards.
4. Meet at least one of the following criteria:
  - An annual site visit by the primacy agency that is equivalent to a Level 2 assessment or an annual Level 2 assessment by a party approved by the primacy agency and correction of all identified sanitary defects (or an approved plan and schedule to correct them and is in compliance with the plan and schedule).
  - Cross connection control, as approved by the primacy agency.
  - Continuous disinfection entering the distribution system and a residual in the distribution system in accordance with criteria specified by the primacy agency.

- Demonstration of maintenance of at least a 4-log removal or inactivation of viruses as provided for under § 141.403(b)(3) of the Ground Water Rule.
- Other equivalent enhancements to water system barriers as approved by the primacy agency

### ***Return to Monthly***

The system must return to monthly monitoring from quarterly monitoring if any of the following conditions occur:

- Loss of certified operator.
- A Level 2 assessment or two Level 1 assessments triggered in a rolling 12-month period.
- An *E. coli* MCL violation.
- A coliform treatment technique violation.
- Two RTCR monitoring violations in a rolling 12-month period.