**Ground Water Rule (GWR) – Source Water Monitoring Requirements**

For all public water systems with groundwater sources that are not treated for 4-log virus removal.

**A.** Was a source sample collected by the PWS – for any reason or requirement?

- Yes
  - Is the source sample TC(+)?
    - Yes. Sample serves as GWR triggered source water sample.
      - Test sample for *E. coli*; *E. coli* is the fecal indicator under this condition. Is the sample *E. coli* (+)?
        - Yes
          - Is the sample fecal indicator (+)?
            - Yes
              - Notify the DWP, work with DWP to determine type of health order/language and do the following within 24 hrs:
                - Issue Tier 1 PN
                - Collect 5 additional samples and test for fecal indicator unless otherwise directed by the DWP.
            - No
              - Additional GWR action is not required.* Follow TCR requirements. A site investigation may be conducted.
        - No
          - Additional action is not required.*
    - No. Sample is TC(-). GWR triggered monitoring is not required.*

- No. No action.

**B.** Is a Total Coliform Rule (TCR) routine distribution sample total coliform (TC(+)?)

- Yes
  - Was a source (well) sample collected – for any reason or requirement (e.g. TCR) – on the same day as the TC(+) routine distribution sample? To determine GWR monitoring requirements, answer this question and use the flowchart for each source or MassDEP approved representative GWR monitoring location operating on the day the TC(+) distribution system sample was collected.
    - No
      - GWR triggered source sampling is required:
        - Consult with the MassDEP DWP
        - Collect sample within 24 hrs of lab notification
        - Test sample for fecal indicator
      - Is the PWS a community system serving >3,300?
        - Yes
          - Are any of the TC(+) distribution system samples *E. coli*(+)?
            - Yes
              - Fecal indicator is *E. coli*.
            - No
              - Fecal indicator is enterococci.
          - No. Additional action is not required.* Follow TCR requirements.
        - No
          - Fecal indicator is *E. coli*.
          - Is the sample fecal indicator (+)?
            - Yes
              - No. Additional GWR action is not required.* Follow TCR requirements.
            - No
              - Corrective action OR 4-log treatment is required.

- No
  - No action.

**NOTES:**

1. GWR monitoring does NOT replace TCR repeat sampling; TCR sampling is independent of GWR sampling with one exception. Systems serving ≤1,000 may use a GWR triggered source water sample to serve as one of their TCR repeat samples IF the source sample is on their approved TCR sampling plan.

2. GWR monitoring is only conducted in response to a routine TCR TC(+) sample; it does not apply to repeat samples.

* The DWP may require the PWS to conduct additional testing of the source water for any of the fecal indicators listed in the GWR to determine the extent of contamination and risk to public health.

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