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# Monthly Compliance Monitoring for Groundwater Systems Instructions for Form 780-2094

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Please fill out information completely and legibly.

**Required information:**

1. Public Water System: The official name of the public water system.
2. Public Water System ID Number: The assigned seven-digit public water system identification number: MOXXXXXX\_.
3. County: The Missouri county where the water system is located.
4. Month and Year: The month and year the report covers. Example 12/09 or Dec 2009.
5. Minimum Residual: The minimum residual determined in the contact time, or CT, calculation for each entry point. This is the value approved by the state when a 4-log treatment application is approved.
6. 4-Log Sample Location: All groundwater supplies conducting compliance monitoring that provide 4-log treatment of viruses using inactivation, removal, or a state-approved combination of 4-log inactivation and removal must monitor before or at the first customer for all its groundwater sources. You may abbreviate such as: Well 1 (W-1) entry to distribution system (EDS) or prior to first customer (PFC).
7. pH: This is either the daily pH reading or the highest pH for the day.
8. Temp: The daily finished water temperature or the lowest temperature for the day.
9. Lowest Free Chlorine (mg/L): This is the lowest chlorine residual recorded for the day when peak flows occur. As long as the system maintains the chlorine level at or above this level then adequate treatment is ensured. If you drop below this level, attach an additional page detailing the duration of the low chlorine reading and if the system failed to provide 4-log treatment. A violation does not occur until the free chlorine residual drops below the required level to provide 4-log inactivation of viruses for more than four hours

Groundwater systems providing 4-Log treatment (99.99 percent virus and bacteria inactivation) must monitor daily for chlorine residual, pH and temperature at a point before or at the first customer and approved by the Missouri Department of Natural Resources to demonstrate 4-log treatment is being achieved. Daily means every day, 365 days a year as long as a well or source is in use. This includes weekends and holidays.

**Systems serving more than 3,300 persons**

Systems serving more than 3,300 persons must continuously monitor disinfection residual at an approved location and record the lowest disinfectant concentration each day. This applies to each day water from the source is served to the public. Grab sampling every four hours is required when continuous monitoring equipment fails. Monitoring equipment must be repaired and returned to service within 14 days.

**Systems serving less than 3,300 persons**

Systems serving less than 3,300 persons must monitor the disinfectant residual concentration daily at an approved location and record the disinfectant concentration for each day water from that source is served to the public. The disinfectant residual concentration shall be measured in a daily grab sample taken during the hour of peak flow, or at another time approved by the department. If the residual concentration measured in any grab sample measurement is less than the minimum required by the department, the system operator must collect grab samples taken at four-hour intervals until the residual disinfectant concentration is restored to the required level. Systems in this category have the option of installing and using continuous monitoring equipment. If systems monitor continuously, they must also meet the same monitoring requirements specified for systems serving more than 3,300 people.

**Operational Monitoring**

10 CSR 60-4.080 sets minimum operational monitoring requirements. In some cases the monitoring may be more frequent than the four-hour intervals cited above. The requirements cited here do not supersede any other regulation that may require more frequent monitoring.

Note: The report must be submitted by the tenth day of the following month. For example, the report for January must be submitted by Feb. 10.

**Submit the report to:**

Missouri Department of Natural Resources  
Public Drinking Water Branch – Monitoring  
P.O. Box 176  
Jefferson City, MO 65102-0176

**For More Information**

Missouri Department of Natural Resources  
Water Protection Program  
P.O. Box 176  
Jefferson City, MO 65102-0176  
573-751-1300 or 800-361-4827  
[www.dnr.mo.gov/env/wpp/index.html](http://www.dnr.mo.gov/env/wpp/index.html)