

Significant Deficiencies
For
Community (CWS) & Non-Transient, Non-Community (NTNC) PWS

Source

1. **Source water quality:** Source water must be of consistent quality. Source water quality parameters must be within the effective range of available treatment options.
2. **Source water quantity/capacity:** Source(s) sized to meet the appropriate level of demand. (particularly important to pressure tank systems).
3. **Location of source facilities:** Water source must be located away (At least 100ft) from pollution sources capable of contaminating the well or spring box. Water source must not be susceptible to flooding.
4. **Condition of source facilities:** Source facilities must be of sufficient design, size and operating condition to provide a reliable, adequate and consistent flow of water.
5. **Transmission of source water:** Consumer connections to source water transmission lines prior to treatment are not allowed.
6. **Improperly constructed well:** (ex. not properly grouted)
 - Well not grouted according to MSDH requirements
 - Well casing and/or well screen is compromised
7. **Significant Source Deficiency not otherwise specified:** As determined and documented by field staff

Treatment

1. **Capacity of treatment facilities:** Treatment facilities must be of sufficient design and size adequately to treat the quantity of water required.
2. **Function and condition of treatment facilities:** Treatment facilities must be of sufficient condition and operation to produce water meeting primary SDWA requirements.
3. **Disinfection:** Systems claiming 4-log inactivation of viruses under the groundwater rule must have redundant chlorination equipment.
4. **In-plant cross connections:** Air gaps or vacuum breakers required on chemical make-up lines or other potential cross connections associated with the treatment facility or water source.
5. **Significant Treatment Deficiency not otherwise specified:** As determined and documented by field staff

Distribution

1. **Cross connection control:** System must implement and maintain a cross connection control policy as defined by state regulations.
2. **Pressure:** System must maintain pressure within range of 20 psi-80 psi. Pressure gauge or logger data indicating sustained low pressures on the distribution main shall be collected to prove pressure problems exist and warrant significant deficiency status.
3. **Significant Distribution Deficiency not otherwise specified:** As determined and documented by field staff

Water Storage

1. **Capacity and design of storage tanks:** Water system storage must be adequate to meet customer demands
2. **Condition of storage tanks:** Water storage tanks must be of sufficient operating condition.
3. **Significant Water Storage Deficiency not otherwise specified:** As determined and documented by field staff

Pumps and controls

1. **Capacity of pumps:** High service pumps must be sized to meet projected peak demand and be in operable condition
2. **Pump station condition:** facilities must be in operating condition
3. **Automatic controls:** automatic controls are required for source facility, treatment system, and pumping stations. Must be maintained in operable condition.
4. **Significant Pumps/Controls Deficiency not otherwise specified:** As determined and documented by field staff

Monitoring/reporting/data reporting

1. **Monitoring plans:** System must collect required SDWA samples according to appropriate sampling plan
2. **MOR:** 4-log systems are required to maintain the MOR worksheet/report provided by State recording the lowest daily chlorine reading according to requirements of GWR.
3. **Operations Record:** applicable water quality parameters must be recorded on routine basis as defined the Public Water System Operations Manual including disinfection residuals and any other modified water quality parameters.
4. **Significant MRD Deficiency not otherwise specified:** As determined and documented by field staff

Management/Operation

1. **Water system staffing:** Facilities must be visited by operator or representative according to schedule defined the Public Water System Operations Manual.
2. **Sanitary conditions:** Are they maintained at all water system facilities?
3. **Site security:** Adequate security for the protection of water system source(s), treatment, storage and pumping facilities.
4. **Inadequate follow-up on previous deficiencies**

Compliance with State requirements

1. **Competency of operators:** System may not operate more than 180 consecutive days without operator certified by the department holding appropriate classification operating license.
2. **Lack of Operational Oversight:** System must perform minimum checks as defined in the Public Water System Operation Manual.