

Ground Water Rule

Impact of GW Rule

- Sanitary Survey to include eight elements
- Survey every 3 years for CWSs & 5 years for NCWSs
- Identify Significant Deficiencies

Impact of GW Rule

- Notify GWS of any Significant Deficiencies within 30 days
- GWS has 30 days to consult with state

Impact of GW Rule

- Complete corrective action or be in compliance with corrective action plan within 120 days of written notification of state

Impact of GW Rule

- Notification of Customers-failing to comply within time frame required public notification and CCR notification

8 Elements of Sanitary Survey

- Source
- Treatment
- Distribution
- Pumps
- Finished Water Storage
- Monitoring & Reporting
- System Management
- Operator Compliance

Significant Deficiencies (SD)

Source

- 30 TAC § 290.41(c)(1)(A)-No well site which is within 50 feet of a tile or concrete sanitary sewer, sewerage appurtenance, septic tank, storm sewer, or cemetery; or which is within 150 feet of a septic tank perforated drainfield

Significant Deficiencies (SD)

Treatment - 3SD's

1. 30 TAC § 290.42(e)(2) - All groundwater must be disinfected prior to distribution. The point of application must be ahead of the water storage tank.

Significant Deficiencies (SD)

Treatment - 3SD's

2. 30 TAC § 290.42(e)(3)(A) - Disinfection equipment shall have a capacity at least 50% greater than the highest expected dosage to be applied at any time.

Significant Deficiencies (SD)

Treatment - 3SD's

3. 30 TAC § 290.42(b)(2)(c)- Exposure of the water to atmospheric shall provide for subsequent disinfection ahead of ground storage tanks, shall prevent foreign materials from the water, and Aerators shall be screened

Significant Deficiencies (SD)

Distribution System - 2SD's

1. 30 TAC § 290.46(s) - Testing equipment. Accurate testing equipment must be used by the system.

Significant Deficiencies (SD)

Distribution System - 2SD's

2. 30 TAC §§ 290.46(d)(2)-(B)
Disinfection equipment shall maintain:
 - free chlorine residual of 0.2 mg/L; or
 - chloramine residual of 0.5 mg/L

Significant Deficiencies (SD)

Finished Water Storage

- 30 TAC § 290.43(b)(1)-No PWS storage tank shall be located within 500 feet of any municipal or industrial sewage treatment plant or any land which is spray irrigated with treated sewage effluent or sludge disposal.

Significant Deficiencies (SD)

Pumps and Controls-2SD's

1. 30 TAC § 290.41(c)(3)(F)-Upon well completion, or a well has been reworked, the well shall be disinfected in accordance with current AWWA standards except that the disinfectant shall remain in the well for at least six hours.

Significant Deficiencies (SD)

Pumps and Controls - 2SD's

2. 30 TAC § 290.44(d)(3) Service connections that require booster pumps taking suction from the public water system must be equipped with automatic pressure cut-off devices ensuring pumping units are inoperative at less than 20 psi.

Significant Deficiencies (SD)

Monitoring, Reporting, and Data Verification - 2SD's

- Following records shall be retained for at least five years:
 1. 30 TAC § 290.46(f)(3)(D)(i) - Microbiological analyses

Significant Deficiencies (SD)

Monitoring, Reporting, and Data Verification - 2SD's

- Following records shall be retained for at least five years:
 2. 30 TAC § 290.46(f)(3)(D)(v) - Invalidated fecal indicator sample

Significant Deficiencies (SD)

System Management and Operation

- 30 TAC § 90.45(b)(1)(D)(v)-Emergency power, elevated storage, or interconnect for systems which serve more than 250 connections

Significant Deficiencies (SD)

Operator Compliance with State Requirements - 3SDs

- 30 TAC § 290.46(e)(4) - Groundwater systems shall meet the following requirements:

Significant Deficiencies (SD)

Operator Compliance with State Requirements - 3SDs

1. 30 TAC § 290.46(e)(4)(A) - No more than 250 connections must employ an operator with a Class "D" or higher license .

Significant Deficiencies (SD)

Operator Compliance with State Requirements - 3SDs

2. 30 TAC § 290.46(e)(4)(B) - More than 250 connections, no more than 1,000 connections, must employ an operator with a Class "C" or higher groundwater license.

Significant Deficiencies (SD)

Operator Compliance with State Requirements - 3SDs

3. 30 TAC § 290.46(e)(4)(C) - More than 1,000 connections, two or more Class "C" or higher groundwater and must work 16 hours per month at PWS