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

**Source**

1. Well near source of fecal contamination (ex. septic systems, sewer lines)
   - Septic systems, sewer lines, or other contaminant sources close to well/spring
   - Well head not sealed
   - Column/casing vent not screened
   - Hose bib faucet prior to check valve
   - Abandoned holes not properly sealed

2. Well in flood zone (100 year)

3. Improperly constructed well (ex. not properly grouted)
   - Well not grouted according to MSDH requirements
   - Well casing is compromised
   - Well screen is compromised

4. Spring boxes that are poorly constructed and/or are subject to flooding

**Treatment**

1. Inadequate application of treatment chemicals and techniques
   *
   (Both Primary MCLs and treatment necessary to satisfy state regulations)
   - Disinfection
   - Corrosion control
   - THM/precursor removal
   - Inorganic removal
   - Other MCL related
   - Inadequate application of treatment chemicals

2. Lack of redundant mechanical components where treatment is required -
   - If a system has only one source, then they must have two separate treatment trains such as two separate booster pumps/chlorinators or two solution pumps.

3. Unprotected cross-connections within treatment system

4. Inadequate monitoring
   *(Both Primary MCLs and monitoring associated with State Regulations)*
   - Inadequate disinfection or CT
   - Inadequate monitoring of disinfection residual
   - Inadequate operation/maintenance of treatment monitoring equipment
   - Inadequate treatment monitoring equipment
   - Inadequate records of treatment parameter sampling
**Distribution Systems**

1. Negative pressure that could result in contamination -
   - Pressure gauge or logger data indicating sustained low pressures on the distribution main
   - Hydraulic model output showing negative pressure areas in the system.

2. Inadequate disinfectant residual monitoring
   - System not flushed periodically

3. Unprotected cross-connections
   - System not surveyed for cross connections
   - Devices not tested as required by Law
   - Failing devices not repaired/replaced and retested

**Finished Water Storage**

1. Inadequate internal cleaning/maintenance of storage tanks
   - tank not inspected periodically
   - recommended actions of inspection not completed in a reasonable time

2. Improper screening of overflow pipes, drains, or vents

3. Necessary repairs of storage tank roofs or covers not made

**Pumps/Pump Facilities and Controls**

1. Inadequate pump capacity

2. Inadequate maintenance

3. Inadequate/inoperable control system

**Monitoring/Reporting/Data Verification**

1. Not monitoring according to site sampling plan or monitoring plan

2. Not meeting reporting requirements

3. Improper recordkeeping

**Water System Management/Operation**

1. Failure to meet water supply demands (overloaded by serving greater than 100% capacity)

2. No approved emergency response plan or vulnerability analysis (updated annually)
3. Inadequate follow-up on previous deficiencies

4. Inadequate security measures
   - No updated vulnerability analysis
   - No updated emergency plan
   - Inadequate fencing of wells, tanks, pump stations, etc.
   - All vulnerable facilities not secured/locked

**Operator Compliance with State Requirements**

1. Operator is not qualified as required by the State

2. Lack of required operator training