Types of Water Services

- Domestic water
- Irrigation/ Landscape
- Recycle/Reclaim
- Fire Protection
- Temporary service
Backflow Protection for High and Low hazards

- Internal isolation
- Internal Containment
- Containment or Premise Isolation
Domestic water

- Drinking water use
- Bathroom use
- Make up water for equipment
- Other uses?
Drinking water

- Water Fountains
- Gang Fountains
Makeup water

- Water heaters
- Boilers
- Heat exchangers
- Cooling Towers
Water heater

- Legionella
- Backpressure
- Thermal expansion
Boilers

- Scale prevention products
- Back Pressure
- Down stream water lines
- The disappearing backflow preventer
Cooling Towers

- Potable water makeup to basin
- Auxiliary water
- Foaming
- Vapor
- Legionella
Irrigation and Landscape

- Residential
- Commercial
Water Service Connection Types and their Hazards
Water Service Connection Types and their Hazards
Water Service Connection Types and their Hazards
Residential

- Potable water no chemical additive
- Potable water with chemical additive
- Potable water with auxiliary water supply
- Potable water with recycle/reclaim water
Commercial

- Potable water no chemical additive
- Potable water with chemical additive
- Potable water with auxiliary water supply
- Potable water with recycle water
Commercial Sites

- River Authority
- Military Bases and Government Installations
- Parks and Public Golf Courses
- University Campuses
- Private Golf Courses
- Specialty Organizations
- Limited Residential Customers
Water Service Connection Types and their Hazards
October 5, 2009

Water Service Connection Types and their Hazards
Water Service Connection Types and their Hazards
Water Service Connection Types and their Hazards
The Water Used For The Irrigation At This Site is NOT from the Edward's Aquifer.

SAWS has authorized the use of our alternate source of water for irrigation use.
Recycle

- Tertiary treated water from a treatment plant
- Water from a carwash?
- Cooling Tower blow down?
- Condensate from an A/C?
- Color Coding (purple pantone 512-522)
Reclaimed water

- Rain Harvesting
- Grey Water
- Ground Water
- Color coding (purple pipe)
Water Service Connection Types and their Hazards

Water tanks and storage systems are essential for water supply in many areas. They are used to store water for various purposes, including drinking, irrigation, and industrial use. However, water tanks and storage systems can pose risks if not properly maintained or designed.

Common Hazards of Water Tanks

1. Corrosion: Water tanks made of steel or aluminum can rust over time, which can contaminate the water supply. Rust can also weaken the tank, leading to leaks or even collapse.

2. Sediment Build-up: Water tanks can accumulate sediment over time, which can reduce the water quality and affect the functionality of the system.

3. Biofilm Formation: Biofilms can grow inside water tanks, which can release harmful substances into the water. This can lead to health issues for those who use the water.

4. Contamination: Water tanks can be prone to contamination if not properly maintained. Biological contamination can occur from various sources, including groundwater, insects, and rodents.

5. Proper Maintenance: Regular maintenance is crucial to ensure the safety and effectiveness of water tanks. This includes cleaning, disinfection, and inspections to identify and address any issues.

In conclusion, water service connection types and their hazards are significant to consider for the safety and functionality of water supply systems. Regular maintenance and proper design can help mitigate these risks and ensure a safe and reliable water supply.
Water Service Connection Types and their Hazards
Rain Harvesting

- On site storage
- Gravity system
- Pump system
- Alternative water makeup (Grey water)
- Color coding (purple pipe?)
Water Service Connection Types and their Hazards
Grey water

- Washing machine
- Bathroom sinks
- Shower
- Condensate
- Kitchen Sink?
- Dual piping in homes?
GROUND WATER

• During times of heavy rainfall in some areas the ground can saturate to the point the water will channel under the surface
• It can also become artesian and sprout springs up through the ground
• In some instances this can be captured
• Color coding (purple pipe?)
Water Service Connection Types and their Hazards
Water Service Connection Types and their Hazards
Temp Connections

- What is connecting to your distribution system
- How do you track them
- How are your eyes and ears
- Find them in the yellow pages
- Have informative meetings so contractors understand the hazards they create!
Color Code for piping

- Recycle- Purple
- Domestic- Green with White lettering
- Irrigation- Potable Water Yellow Black Lettering
- Rain Harvested- Purple?
- On Site Reclaim- Purple?
- Well- Yellow with Black lettering
Water Service Connection Types and their Hazards

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2009 Innovations in Irrigation Conference

Bruce Rathburn
Backflow Prevention Supervisor
San Antonio Water System