



TUALATIN VALLEY
WATER DISTRICT

SPRING IRRIGATION PREPARATION

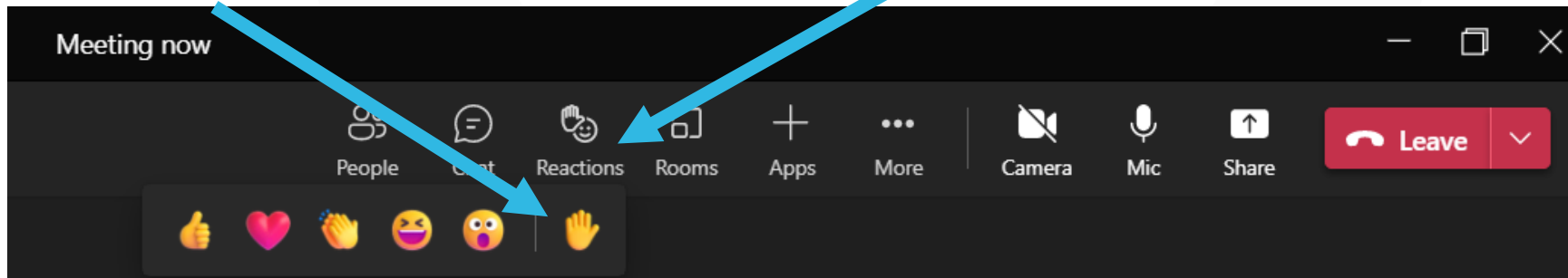


Talkin' Water

May 24, 2023

VIRTUAL EVENT GUIDELINES

- Sessions are recorded.
- Please make sure your microphone is muted.
- Raise your hand to ask questions by clicking on the Reactions button and then clicking on the hand.



- Once TVWD Staff call on you, unmute your microphone and ask your question. When finished, please mute your microphone again.
- TVWD operates in an inclusive and discrimination-free manner to serve all customers. Staff may exclude participants who disrupt events.



SENIOR WATER QUALITY SPECIALIST

Kahlil Howell

- Joined TVWD in September 2020
- Previously a trainer, Cross-connection Specialist, and backflow assembly tester.
- Trained operators in cross-connection control related subjects in Oregon, Washington, California, Alaska, and Hawaii.

SUMMER IS RIGHT AROUND THE CORNER

To irrigate efficiently, you need to tune up your system every spring



SPRING IRRIGATION SYSTEM PREPARATION

Helpful tools

- Large screwdriver
- Small flat head screwdriver
- Specialty adjustment tools for sprinklers
- Hand spade

- Valve key
- Gloves
- Flashlight
- Knee padding

SPRING IRRIGATION SYSTEM PREPARATION

Close manual drains: valve locations



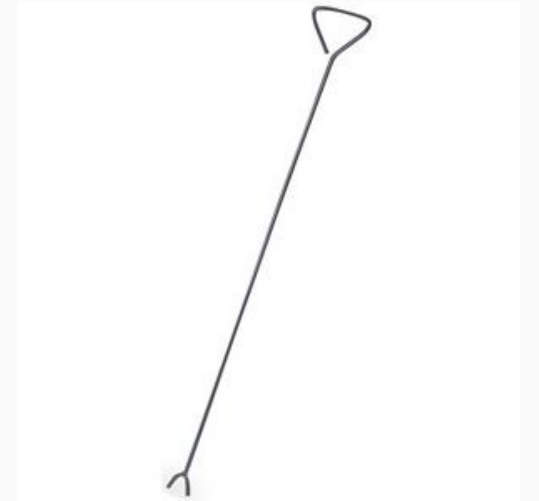
SPRING IRRIGATION SYSTEM PREPARATION

Close manual drains: Re-install drain caps



SPRING IRRIGATION SYSTEM PREPARATION

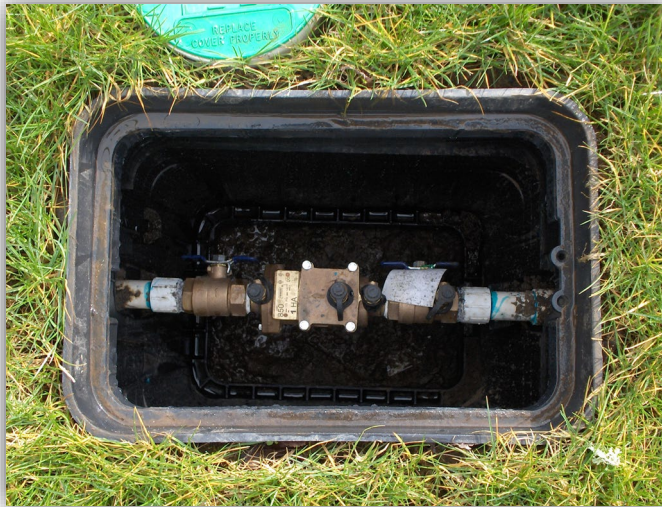
Close manual drains: Types of drain valves



PRESSURIZING YOUR BACKFLOW PREVENTER

Not all backflow preventers are the same – Most require annual testing

Double Check Valve Assembly (DC)



Pressure Vacuum Breaker Assembly (PVB)



Atmospheric Vacuum Breaker (AVB)



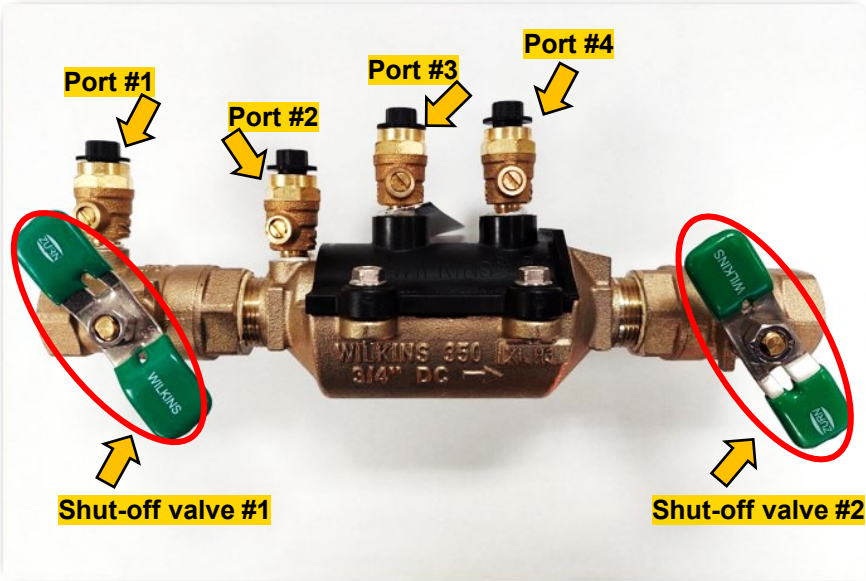
PRESSURIZING YOUR BACKFLOW PREVENTER

Basic valve operation of the double check valve assembly

Closed



Open



Closed



Open



SPRING IRRIGATION SYSTEM PREPARATION

Irrigation isolation valve location and operation



PRESSURIZING YOUR BACKFLOW PREVENTER

Here is the best practice to pressurize your system

- 1. CLOSE** #1 and #2 shut-off valves
- 2. CLOSE** all four test ports



- 3. OPEN** isolation valve
- 4. OPEN** assembly shut-off #1



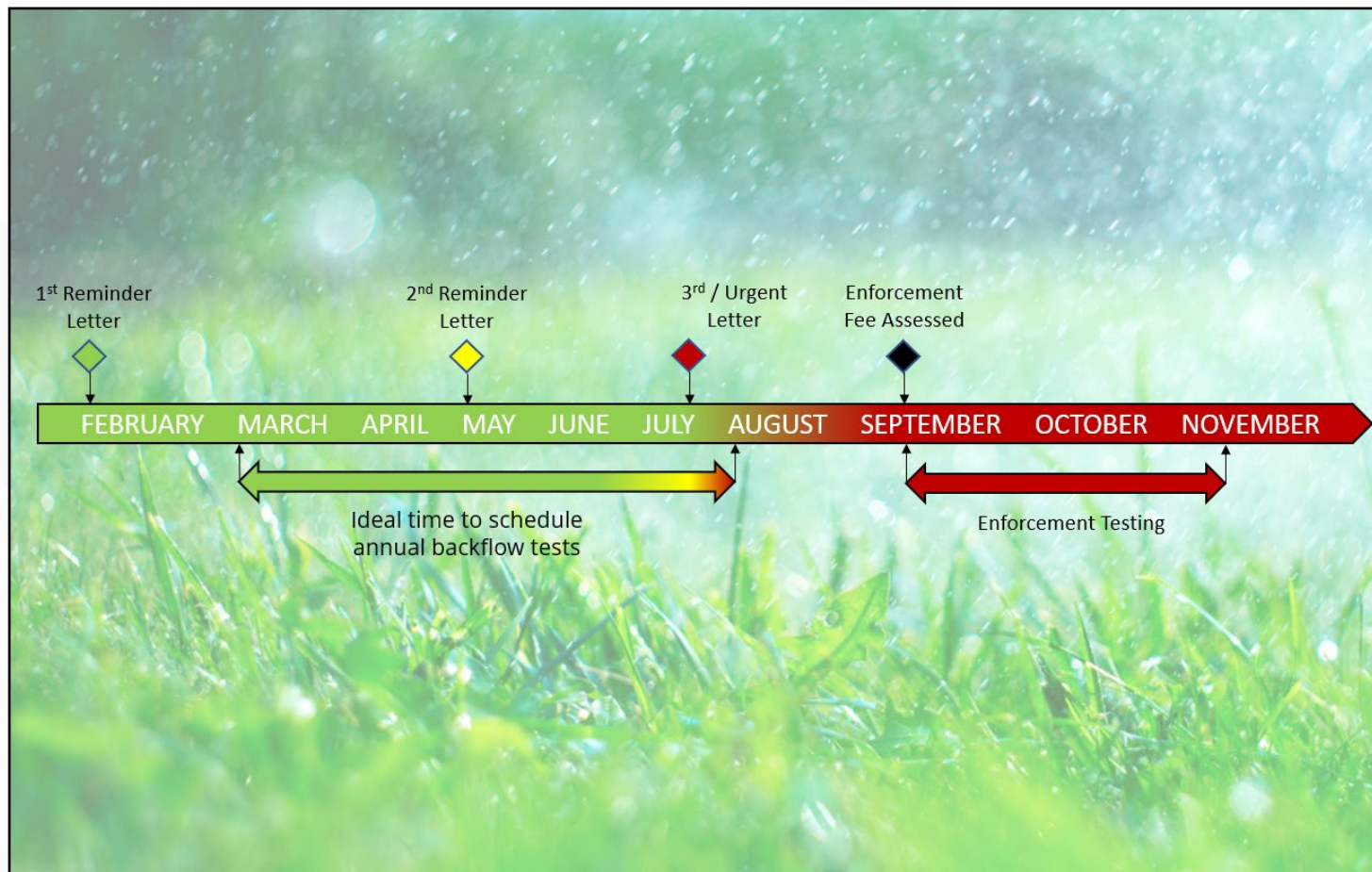
- 5. OPEN** #2 shut-off SLOWLY



ANNUAL TESTING SCHEDULE

Many customers prefer hiring their own tester, and that's okay!

- Backflow assembly test(s) are due before September 1st each year
- To find a certified tester, ask around! Your neighbors may have great recommendations, or your landscape company may even be certified
- Certified testers are required to submit test results electronically within 10 business days of the completed test through TVWD's tracking software web portal
- Assemblies not tested by September 1st will be assigned to our contracted certified testers and a \$50 enforcement fee is applied to the customers water bill

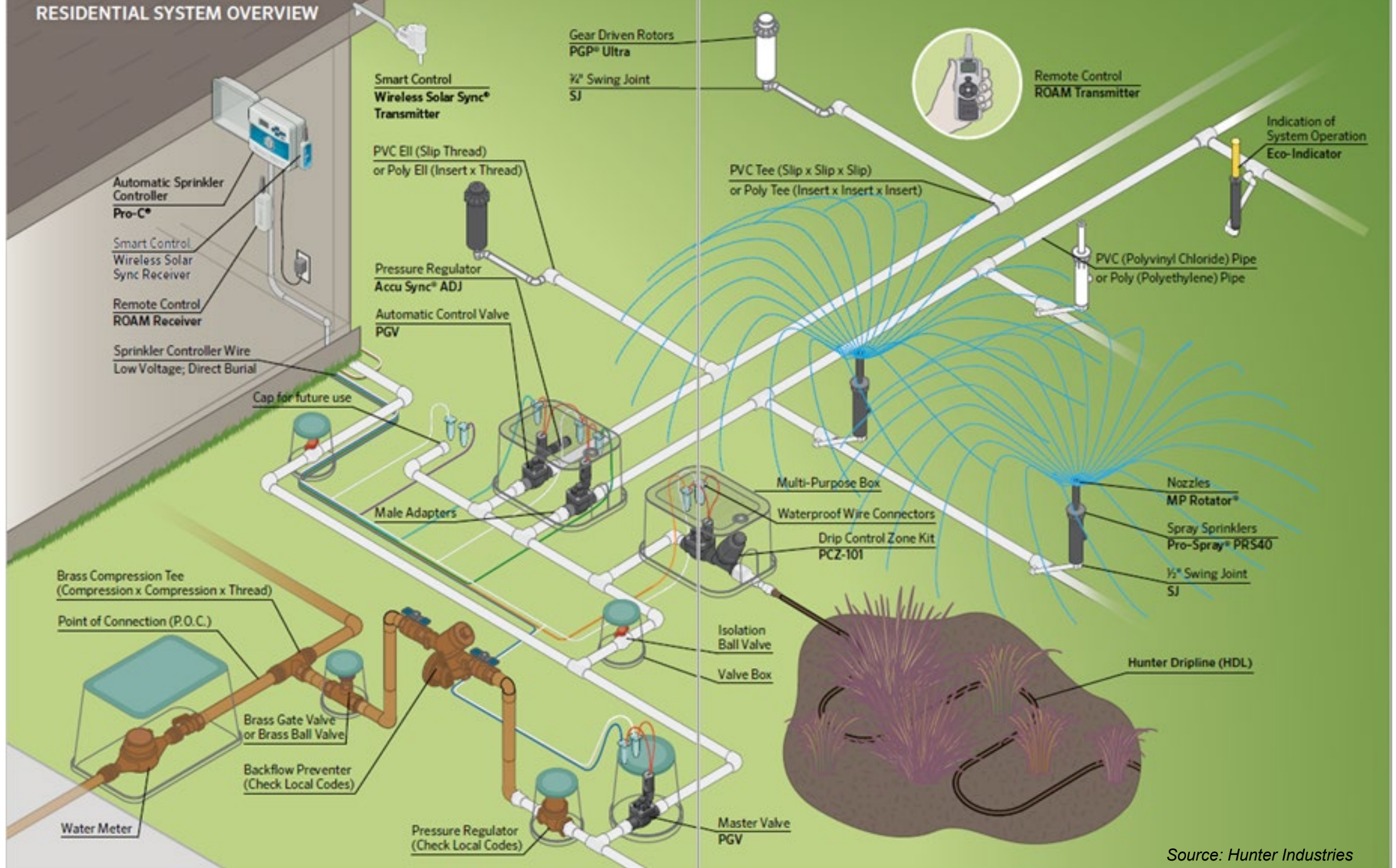


RESIDENTIAL TESTING PROGRAM – GOLD PLAN

Since 2009, we've offered contract testing for our customers, called the "Gold Plan"

- **TVWD Gold Plan is an optional service for 'most' residential customers**
- **To subscribe to the Gold Plan please visit our website at [TVWD.org/GoldPlan](https://www.tvwd.org/GoldPlan)**
- **The Gold Plan subscription is \$35 per backflow assembly, added annually to your water bill**
- **TVWD will arrange your backflow assembly test with our certified contracted testers**
- **TVWD will credit up to \$50 toward assembly repairs when using our certified contracted testers**

RESIDENTIAL SYSTEM OVERVIEW



SPRING IRRIGATION PREPARATION

Inspect and maintain your sprinkler system every spring

Irrigation Maintenance Video:

tvwd.org/IrrigationMaintenance



SPRING IRRIGATION PREPARATION

Turn Irrigation Controller to ON Setting



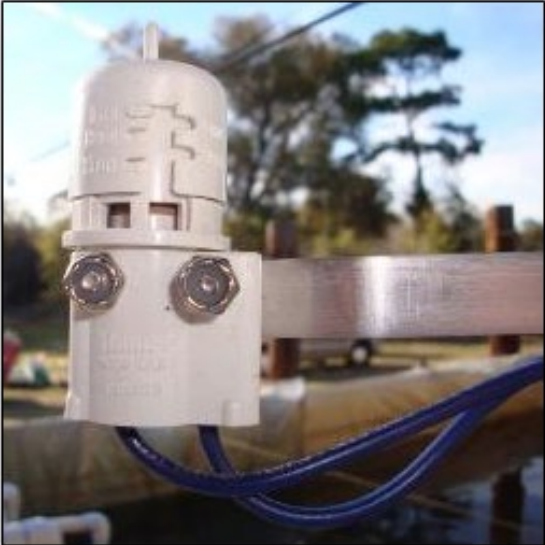
SPRING IRRIGATION PREPARATION

Sprinkler adjustment: radius and arc pattern



SPRING IRRIGATION PREPARATION

Rain Sensors & Weather-Station



SPRING IRRIGATION MAINTENANCE CHECKLIST

SPRING IS THE TIME TO INSPECT AND MAINTAIN YOUR SPRINKLER SYSTEM FOR PEAK SUMMER PERFORMANCE AND EFFICIENCY. HERE'S WHAT TO DO:

- Close all manual drains (if installed) and test-cocks on backflow prevention device (likely left open when sprinkler system was drained last fall).
- Slowly open the main shut-off valve, allowing the piping between it and the backflow prevention device to fill with water.
- Pressurize the mainline from the backflow prevention device to the control valves.
- Ensure backflow prevention device has been tested by a state-certified tester. Contact your water provider for specific information on rules and regulations - be sure to ask for the cross connection or backflow specialist.
- Run the entire sprinkler system, one zone at a time. As you do this;
 - Check for signs of leakage from damaged sprinkler heads or broken piping. Repair leaks right away.
 - Check for accurate spray patterns. Adjust your sprinklers so they water your landscape and not sidewalks or pavement.
 - Adjust sprinklers that have sunken or become misaligned and ensure that spray isn't blocked by plants or other obstructions.
 - Clean clogged nozzles, filters and sprinkler heads.
- Verify the programming of irrigation controller. Make sure you don't have excessive zone run times, extra active programs or start times, that can lead to unintentional overwatering.
- Sign up for the Weekly Watering Number at [regionalh2o.org](https://www.regionalh2o.org).
- Take the worry out of scheduling by installing a WaterSense labeled weather-based irrigation controller and take advantage of local rebates.

YOUR TURN! ANY QUESTIONS?



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Senior Water Quality Inspector



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[Tvwd.org/TalkinWater](https://tvwd.org/TalkinWater)