YOU HAVE CHECKED EVERYTHING... NOW WHAT?

If you haven’t found a leak after checking all the water outlets mentioned, and you will still suspect a problem, you may want to call in a licensed plumber. You are also welcome to contact a Columbus Water Works Customer Service Representative at 706-649-3400 for assistance.

We will work as hard as possible to assist you.

WATER LEAK DETECTION GUIDE

A helpful guide for locating indoor and outdoor water leaks
WATER LEAKS: WHAT YOU SHOULD KNOW

Imagine that the dot inside these parenthesis (.) is the only hole in your home’s water system. By its size alone, that hole may not seem worth tracking down. But that hole can waste more than 4,000 gallons of fresh water each month — enough water to take to a shower everyday for a year!

Consider how important water is for our families, pets and environment, and you see that even tiny holes deserve immediate attention. That’s why we developed this simple water leak detection kit. It’s designed to help you find and repair water leaks - even the tiny ones.

Getting Ready

Use the checklists on the following pages to help direct your search for some fairly common - and a few not-so-common - water leaks.

How can you be sure your inspection will be as thorough as possible? The checklists cover three areas: common indoor leaks, not-so-common indoor leaks, and outdoor leaks. If you investigate the leak possibilities in the order shown, you’ll uncover the greatest potential for savings in the first few places you look.

It’s a good idea to have the following items with you as you begin your work:

- Flashlight
- Food coloring
- Shut-Off Valve Identification Tag (Make one yourself)
REMEMBER TO TURN YOUR SHUT-OFF VALVE BACK ON

Follow the same procedure to open the shut-off valve as you did to close the valve. The only difference is you will turn the valve in the opposite direction to open!

FIRST SPOT YOUR SHUT-OFF VALVE COMING INTO YOUR HOUSE

Your main shut-off valve is located near your water meter. Everyone should know the location of this valve, and in case of an emergency such as a burst pipe it will help prevent costly damage from flooding.

If you don’t know where this valve is located, it’s important that you find out. Normally, it’s near the water meter. If your meter is outside the house, find the place where the water service line enters the building. The shut-off valve is likely to be close by. Common locations are in the basement, under the kitchen sink, near the meter box or at the pressure regulator (if required).

After finding the valve, turn it to close. Water valves are generally closed by turning clockwise; if a valve does not turn easily, do not force it. If you may want to have the valve repaired or replaced you need it. Place a tag on the valve so you won’t forget in the future.

Now you’ve ready to begin!
Part 1
COMMON INDOOR LEAKS

The Leaky Toilet
Accounting for more than 95 percent of all water waste, toilet leaks are caused by worn or damaged parts in the toilet flush tank. (Toilet flushes account for about 100 gallons of the water use in your house each day. That’s about 40 percent of the average household use.) Some of these leaks will empty directly into the sewer line without leaving any clues. Even so, you can check for these leaks. Common causes include:

Float arm problems
Remove the lid from the top of the flush tank. See if the overflow pipe and the plunger ball are working properly. Do this by flushing the toilet, watching the tank mechanism and listening. You should hear the water flow shut off.

If the water does not shut off, check the water level. If it has risen above the overflow pipe, gently bend the float arm down and flush again.

You may need to replace the plunger ball if the water level is about one inch below the top of the overflow pipe and you will hear water flowing.

A tiny pinhole
A pinhole opening below the overflow pipe’s water line could produce an invisible leak. Check for this by shining a flashlight down into the overflow pipe. If you see running water, you have a leak that should be repaired.

A defective plunger ball (flapper valve)
This is often a silent leak which causes the tank to continually drain and refill. Check for a worn or improperly seated plunger ball (flapper valve) by dropping a few drops of food coloring into the toilet tank. Do not flush. If a leak exists, the dye-colored water will seep into the bowl in about five minutes. If it does, the plunger ball (flapper valve) may need to be replaced or realigned.

OUTDOOR LEAKS CONTINUED

Swimming pool
The pool system’s automatic shut-off causing a continuous cycle of water to be produced could be a leak. If the water level stays higher than normal, you may have a leak in the service line to your house. Water soaks into the ground, causing the soft spots. Close the main shut-off valve. If the sound of running water continues, the outside service could be leaking.

Service connecting line
If you find a soft, wet spot on your lawn or hear running water outside your house, you may have a leak in the service line to your house. Water soaks into the ground, causing the soft spots. Close the main shut-off valve. If the sound of running water continues, the outside service could be leaking.
Part 3
OUTDOOR LEAKS

When checking for water leaks, many people forget that water faucets and equipment exist outside as well as inside the home. Here are four areas you shouldn’t overlook.

Final Places To Check

Water Faucets

Each faucet should be checked for leaks. Make sure faucets are closed when not in use. If you fine a leaky faucet, change the washer (after closing the shut-off valve).

In colder climates, during the winter, these inside shut-off valves should be closed to prevent freeze-ups. Be sure to open the outside faucet after you have shut the inside valve so that any water still in the pipes will drain out. These shut-off valves are usually in your basement. One shut-off valve may control all the outdoor faucets.

Automatic lawn-sprinkling system

Soft spots on your lawn may indicate a leak that is being absorbed into the ground.

COMMON INDOOR LEAKS

The Leaky Faucet

A dripping faucet

A slow drip can waste as much as 20 gallons of water each day. A mere 1/16-inch leak wastes 100 gallons of water each day. With that much water - and money - going down the drain, it’s important to get leaky faucets fixed as soon as possible.

If you notice that a faucet is dripping, first try closing it tightly. If it continues to drip, the most likely cause is a worn or wrong-size seat washer (also called a stem washer). With just a little effort, you may be able to replace the washer yourself. You may need an adjustable wrench, a standard-blade screwdriver, and a Phillips screwdriver for older plumbing fixtures. It may be more economical to rebuild or replace the faucet if it is washerless.

Changing a washer

Before you start, turn off the water supply to the faucet by closing the fixture’s shut-off valve. Most kitchen and bathroom faucets have shut-off valves under the sink.
Part 2
NOT-SO-COMMON INDOOR LEAKS

Things To Check

Water heater tank

The pressure valve released could be stuck. This valve is most often found near the top of the tank, and is usually a large brass fitting threaded into the tank. If it’s not working properly, water will be leaking from it, dripping down the side of the tank and accumulating on the floor.

Boiler

Listen for the sound of running water. If it is continuous and does not stop and start periodically, your boiler system may have a leak.

Water softener

If you have a water softener, it could be wasting water if it is not recycling properly. The cycling process, regulated by a timer, often occurs between 2 a.m. and 4 a.m. You’re likely to have a problem in this unit if you constantly hear the sound of running water.

Washing machine

If you see water on the floor near the machine, it could mean a leak. You may want to call your washing machine repair service.

Humidifier

Water accumulated beneath the unit could be a sign of a leak. If the overflow discharge is piped into a sewer or drainage line, you may not find any visual signs of a leak. Listen for running water. If it’s continuous, the float valve could be stuck.

Fire suppression systems

Many newer homes and businesses have fire suppression systems. If so, check to make sure that the sprinkler heads are tight and not leaking.

Dishwasher

Water accumulated on the floor near the unit could be a sign of a leak. You may want to call your dishwasher repair service.

Bath

Head and replace the valve.