



A Sudden Water-Bill Spike: Run the 10-Minute Meter Leak Test First

Description

A high bill does not prove a hidden pipe leak, but a still-running meter with every fixture off is a strong reason to investigate. Ten quiet minutes, two photographs and a fixture-by-fixture isolation sequence can turn a vague suspicion into useful evidence for the household and plumber.

This guide is for a Singapore household that sees an unexplained rise in water consumption or receives a leak alert. The decision is to confirm whether water is still flowing with fixtures off, isolate common leak sources and engage the right licensed plumber.

Start with consumption evidence

PUB's smart-water-meter service gives participating households more detailed consumption information and leak alerts. Compare the bill period with actual occupancy, guests, cleaning, irrigation and appliance use. A rising daily baseline is more useful than comparing two dollar totals that may cover different days or tariffs. [PUB Smart Water Meter guidance](#).

Run the ten-minute meter test

PUB's leak-finding guidance instructs households to turn off all taps and water-using appliances, take a meter reading, wait ten minutes without using water and read it again. Photograph both readings and note the exact times. A change indicates water moved somewhere in the property during the test. [PUB leak-finding guide](#).

Isolate the common branches

Check toilet cisterns, dripping taps, washing machines, water heaters and exposed pipework. A silent cistern leak can exceed ten litres an hour, while a leaking tap can waste up to two litres an hour under PUB's examples. Test one branch at a time so the next meter reading has meaning.

Know when the evidence points beyond a fixture

Moisture, staining, mould, unusual pump activity or continued meter movement after accessible fixtures are isolated may indicate a concealed service leak. Stop invasive guesswork and use a PUB-licensed plumber. In a condo, tell the managing agent if common property or inter-floor seepage may be involved.

Close the loop after repair

Repeat the same ten-minute test after the repair, then watch the next daily consumption pattern. Keep the plumber's report, photographs, parts replaced and readings. A successful repair should produce both a physical correction and a measurable change, not only a verbal assurance.

The two working tools

The first original unit is a worksheet with start time, end time, meter digits and every fixture declared off. The second is a leak-location decision tree. Repeating the same timed measurement after each isolation step produces evidence a plumber can use and prevents a bill spike from being blamed on the first dripping tap found.

Observation	Next test	Likely owner
Meter unchanged for 10 minutes	Review occupancy and bill period	Household or PUB billing enquiry
Meter moves with all fixtures off	Isolate toilets and appliances	Household, then licensed plumber
Movement stops after one isolation	Inspect that fixture or branch	Licensed plumber where required
Movement continues and damp signs appear	Avoid opening concealed pipes without diagnosis	Licensed plumber and possibly managing agent

Keep the decision usable after today

A first check can go stale before the task is finished. Put start with consumption evidence, run the ten-minute meter test and isolate the common branches on separate dated lines instead of combining them into one "done" box. Attach the authority page or document beside the line it supports, record the person who checked it, and write the exact event that will force another check. That event may be a changed account, amended filing, new appointment, revised timetable, altered access route, later test run or updated dataset. The format matters because a future reader must be able to see which fact changed without repeating every part of the exercise.

Next, give the two original tools different owners. The person maintaining a timed meter-test worksheet with start, stop and isolation readings should preserve the inputs and arithmetic or branch logic. The person maintaining a leak-location decision tree covering cistern, tap, appliance and concealed-pipe signs should confirm that the final action followed the chosen route. One person may perform both roles, but the evidence should still distinguish calculation from execution. This prevents a correct plan

from being mistaken for proof that the payment, filing, trip, report, repair, training or release actually happened.

Before relying on the result, ask a second reader to reproduce the conclusion from the saved material without being told the preferred answer. They should be able to match the right person, entity, account, property, route, service or software version; identify the controlling date; and explain the strongest stop condition. If they reach another branch, do not average the two answers. Reopen the disputed source, definition or input. A decision that cannot be reproduced is not ready for a consequential step.

Worked example

A household photographs 01234.560 at 9:00 pm and 01234.590 at 9:10 pm, a 30-litre change with no intended use. After isolating one cistern, the next ten-minute reading does not move. The result does not prove which internal part failed, but it narrows the plumber's first inspection to that toilet branch.

The example is a calculation or decision illustration, not a report of an interview, purchase, visit, transaction, taste test or personal outcome. Replace its inputs with the reader's own current evidence.

Where this can go wrong

- Comparing bill dollars without checking billing days and consumption volume.
- Running the test while an appliance, purifier or cistern is still filling.
- Opening concealed pipework before documenting the meter evidence.
- Stopping after a repair without repeating the same test and monitoring the baseline.

Before acting

1. Compare consumption dates with household activity.
2. Turn off fixtures and appliances and photograph the starting meter.
3. Wait ten minutes with no water use and photograph the ending meter.
4. Isolate likely branches and record each repeat test.
5. Use a licensed plumber and preserve post-repair evidence.

Limits and useful next reading

The meter test indicates flow, not the location or legal responsibility for a leak. Shared supply arrangements, faulty meters and common-property pipes need separate investigation. Use PUB and the managing agent for case-specific questions.

For the next related decision, [build evidence for condo water seepage](#). It is also useful to [review HDB improvement works and charges](#).

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