

Water Leak Detection Site Survey Report

29th April 2015

We attended the site on 22nd April 2015 to carry out water leak detection having completed a site water audit revealing water losses.

We confirmed the meter feeding the property to be 4T012345 and the meter read 4640m³ on 22nd April 2015.



The Water Meter: 04T012345

The Water Meter Location

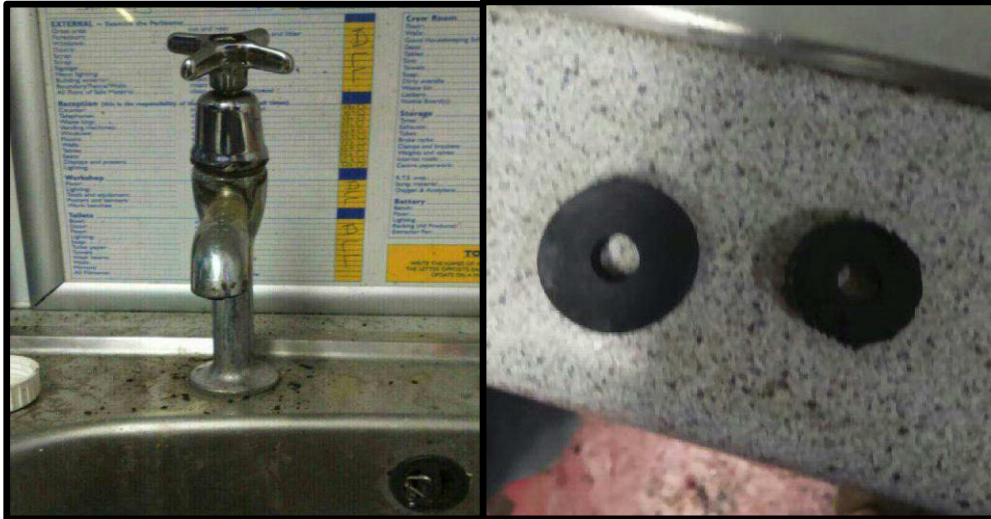
Using the previous actual reading from the Southern Water February invoice of 4443m³, it would appear that the site water meter has recorded a **usage of 196m³ in just 65 days** equating to an **average daily usage of 3.01m³**. This average daily usage equates to a **daily cost of £10.46 per day & £3,819.14 per annum**.

When **benchmarked against other sites**, we estimate this site should be using approximately **0.3m³ per day** which equates to a **daily cost of just £1.04** and an **annual cost of £379.97**.

With a **current ADU of 3.01m³** & a **benchmarked normal ADU of 0.3m³**, this site currently has **excess unaccounted water consumption equating to 2.71m³ per day**. This excess consumption results in an **unaccounted excess cost to the site of £9.40 per day & £3,432.35 per annum**.

We began by isolating the internal stop valve and checked the water meter. With the ISV isolated, the meter was stationary which confirmed that the leak was internal and not out on the external supply.

We continued to investigate all areas of the site and came across a tap in the kitchen which was constantly dripping. We unscrewed the tap and exchanged the rubber washer inside the tap as it appeared this had worn away, hence why the tap was leaking. With a new rubber washer fitted, the tap was repaired.



The leaking tap found in the Kitchen

The washer on the right can be seen to have worn away. The one on the left is the replacement we installed.

From here we found ourselves in the upstairs toilets. Both toilets were found to be constantly filling up. We attempted to adjust the ball valve in the toilets tanks but both ball valves are completely worn and need replacing to repair the toilets. We found no other leakage issues whilst on site.

We recommend returning to site to fit x2 brand new ball valves to the toilets. As all the water has run straight down the drain to sewer.



Both of the toilets upstairs were found to be constantly running due to broken ball valves within the toilet tanks

Recommendations

Remove ball valves and replace.

Saving £3,432 per year.

Payback 6 weeks.