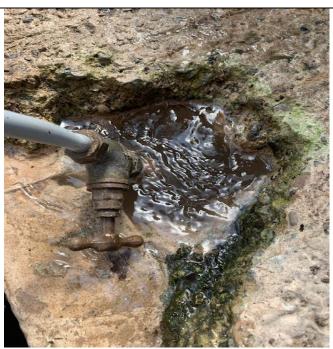


Leakage Investigation Survey

		r informa								
Size (mm)	15	f-28 ✓	32-50)	75-100		125- 200		Above 200mm	1
Serial numbe		XC120345		<u> </u>			1	,	1	<u> </u>
Read 1	80	53 <mark>.469</mark>	Time:	11.	11.38 02/06/2021					
Read 2	80	53 <mark>.494</mark>	Time:	11.	11.43 02/06/2021					
eakage Ar			ise entr	ance i	in garden cer	Title				
Acoustic sounding	✓ ✓	Correlatio	า		Ground microphone			Environmental Inspection		✓
Other	Isolatio	olation of rising main								
Pipe traced		CAT & Genny					Distance			
Pipe correlated	Accelei	rometer		Hydrophones			Distance			
	-	mation		•		1		•		
Background	d Infori	Hation								

Activity Summary





Pic 5

On arriving at site I met with the estates manager he informed me of the meter with the high consumption and the area it supplied.

I was teamed up with an estates worker who kindly showed me around the supply area and the location of the meter (pic 2).

The meter was quite deep and I had to enter the meter chamber to obtain a reading. On taking a reading I also took a flow rate which was 4 litres per minute which equates to 5.7m3 per day but had much fluctuation.

On seeing the fluctuation I was coinvinced we were looking for something internal and not an underground leak.

On checking all related buildings an uncontrolled urinal (pic 1) was located with an estimated flow rate of around 1.5 to 2 litres per minute which equates to 2.8m3 per day, this was throttled down by closing the ball-o-fix slightly which reduced the flow, we recommend installing a urinal control to fix this issue and prevent any constant flow.

A further check was made at the meter and was seen to be stationary for several seconds at a time.

We met with a chap who collects the meter reads and deals with the bills etc and he informed us that we were looking at the wrong meter and we need to check out the garden centre meter as that was the one that had increased dramatically.

On checking the garden centre meter (pic 3) which only supplied an irrigation tank and two greanhouses, it had a constant flow rate of 5 litres per minute which equates to 5.7m3 per day.

On entering the first greenhouse there was a board laid on the floor (pic 4), on lifting the board you could clearly see a leak (pic 5) with a very good flow rate.

It was not possible to shut this off as the leak was the live side of the stop tap, on reporting this back to office we were instructed to isolate it and get a team on ASAP to carry out repairs.

Summary & Recommendations

Summary:

Install urinal control in male washroom to prevent flushing out of occupancy.

Carry out repairs on failed supply in greenhouse

Savings 3102 cubic meters a year or 682,440 gallons at a cost of £11,000

Survey carried out by

Engineer	H2O Building Services	Date	2 nd June 2021
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