

Client: Plumbing and Timber Merchant, Poole, Dorset

Mains water meter information

Size (mm)	15-28	✓	32-50		75-100		125-200		Above 200mm	
Serial number	1234567									
Readings (1)	19495.949				Time:	10.53 09/10/2019				
Readings (2)	19495.979				Time:	10.58 09/10/2019				
Location	Meter located in verge 5 mtrs left of entrance gate									

Leakage Activities

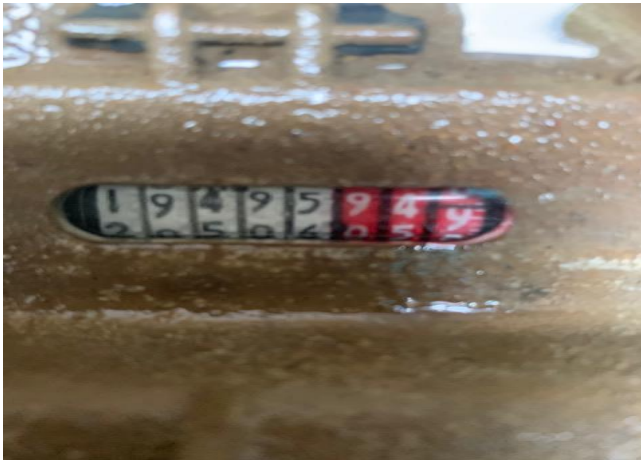
Acoustic sounding	✓	Correlation		Ground microphone	✓	Environmental Inspection	
Other	Isolation of rising main						
Pipe traced		CAT & Genny			Distance		
Pipe correlated	Accelerometer			Hydrophones		Distance	

Background Information

A leak has been identified by site but not looked into as yet

Activity Summary

Pipework & Metering



Pic 1



Pic 2



Pic 3



Pic 4



Pic 5



Pic 6



Pic 7



Pic 8

Leakage Survey Activities

Site staff explained that there was an issue back in February with high water bills and that they had had the local WC and others on site investigating for possible leakage. I first checked the main meter (pic 1) and after pumping out the chamber, a meter reading was taken along with a flow rate confirmed at 6LPM. The meter was sounded and a substantial noise was evident on the pipe-work, the internal stop tap was placed in the closed position and the meter re-checked and again a flow rate confirmed at 6LPM, $0.36\text{m}^3/\text{hr}$, $8.64\text{m}^3/\text{day}$ = £9,460.80 per annum.

The area around the meter was checked and evidence of flooding under all the shrubbery (pic 3,4,5&6) was evident, on further investigation the leak was located and pinpointed. The leak was located approx. one metre in front of the main meter (pic 5), water could be seen bubbling up to the surface. The pipe-work from the main meter to the internal stop tap is of galvanised iron construction, the supply appears to be inside a 4" duct (pic7) it is therefore recommended that the supply pipe be renewed from the meter to the internal stop tap (pic 8) as the pipe is galvanised iron and will be no longer fit for purpose.

Summary & Recommendations

Summary:

External leak located on supply and is flooding the area of the meter

Recommendations:

Renew supply from meter to internal stop tap

Survey carried out by

Engineer	H2O Building Services	Date	9 th October 2019
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