



Leakage Investigation Survey

Client: Newbury, RG14

Mains water meter information

| | | | | | | | | | | |
|---------------|--|---|-------|--|--------|------------------|---------|--|-------------|--|
| Size (mm) | 15-28 | ✓ | 32-50 | | 75-100 | | 125-200 | | Above 200mm | |
| Serial number | 01M12345 | | | | | | | | | |
| Readings (1) | 2911.194 | | | | Time: | 09.16 31/07/2019 | | | | |
| Readings (2) | 2911.229 | | | | Time: | 09.21 31/07/2019 | | | | |
| Location | Meter located in footpath RHS of entrance (Boundary Box) | | | | | | | | | |

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 staff, area of flooding in front of entrance doors next to disabled parking bay

Activity Summary

Pipework & Metering



Pic 1



Pic 2



Pic 3



Pic 4



Pic 5



Pic 6

Leakage Survey Activities

On arriving at site, it was evident where the area of possible leakage was as there was a large wet patch in the yard opp the main entrance doors, on checking the main meter (pic 1) which had a constant flow rate. I shut of the internal stop tap (pic 2)at the POE and re checked the meter, it still had a constant flow rate confirming a leak on the supply pipe. The flow rate was timed over a one minute period and the flow rate was recorded at 6LPM. This equates to 360LPM per hour, ADU 8.64 = Cost **£7,504.40** per annum.

The internal stop tap (pic 2)was re opened and a surface sounding exercise was carried out around where the wet patch was in the yard, it was very difficult to pinpoint the leak due to a very busy road outside the site and road traffic noise was very high. After a long waiting game sounding in between the traffic gaps, a leak noise was located and marked with a blue cross.

If the blue mark rubs off it will be easy to work out where the leak is based on the photos of the area (pic 3,4,5&6).

Summary & Recommendations

Summary:

External leak located on supply and marked with blue paint

Recommendations:

Excavate and repair

Survey carried out by

| | | | |
|----------|-----------------------|------|----------------------------|
| Engineer | H2O Building Services | Date | 31 st July 2019 |
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