Water plus Advanced Services Report

2001890-Stapeley Community Hall

Leak Detection Report

16th August 2019

Waterplus
with you every drop of the way

Prepared by	Prepared for
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WELCOME TO
Stapeley
Community
Hall


ASH

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1 Introduction

Water plus Advanced Services were approached by Carol Jones from Stapeley Community Hall to investigate a potential water leak on the site due. Arrangements were made to have an engineer visit site and conduct leakage detection to either pinpoint a leak on the supply pipe or identify potential reasons for the increase in water.

2 Methodology

The table below identifies the procedures undertaken during the leak detection visit:

Integrity Check	y
Acoustic Sounding	n
Pipework Traced	y
Pipework Correlated	n
Leak Pinpointed	n/a
Alternative Water Loss Identified	y

2.1 Leak detection Techniques Definitions

Integrity Check – isolation of the internal stop tap to establish whether the water loss is on the external supply pipe or on internal fixtures and fittings

Acoustic Sounding – leakage on a pressurised water pipe generates noise vibrations through the pipe. Using a listening stick the engineer can detect these noises through listening to apparatus on the site's water network

Pipework Tracing – a CAT and Genny device is used to identify the location of underground services including water, gas and electric

Pipework Correlation - A leak noise correlator is an electronic device used to find leaks on pressurised water pipes. Acoustic sound sensors are placed in contact with the pipe, at two or more points, to record the sound emitted by a leak. The sound data is processed through a mathematical algorithm which correlates the two recordings to determine the difference in the times it takes noise to travel from the site of the leak, pinpointing the location of the leak.

3 Results

Firstly I checked the water meter, which was recording a flow of water. I went inside the building to locate the internal stop tap, this was found in the kitchen area under the sink unit. I isolated the tap and checked the water meter again, this had stopped recording proving there was no leak on the pipework from the water meter to the internal tap.

I then checked around the building for any misuse(toilets, taps), when I checked the male toilets the urinals where running constantly so this was the problem.

Internal Stop-Tap under kitchen unit

Urinals constantly flowing.

3.1 Meter Information

Size (mm)	15-28	y	32-50		75-100		125-200		Above 200	
Meter Serial Number(s)	NC09AU051074									
Readings 1	01985-076				Date & Time		16.08.2019 10.42AM			
Readings 2	01985-084				Date & Time		16.08.2019 10.47AM			
Location Details	In Tarmac footpath on right hand of main gate									

Meter in tarmac footpath by main gate

Meter in chamber

4 Recommendations

After reviewing the report we would recommend the replacement of the Flow Control in the males toilet.
We would also suggest taking regular meter readings regularly.

Flow Control to be replaced