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Client: College, Oswestry										
Mains water meter information										
Size (mm)	15-28		32-50	~	75-100		125- 200		Above 200mm	
Serial number	19JE122	211	1	1	1	1	1	1		L
Readings (1)	14161 <mark>.2</mark>	13			Time:	09.4	4 18/02/2	020		
Readings (2)	14161 <mark>.665</mark>			Time:	09.49 18/02/2020					
Location	Meter in	wood	land, doub)le spli	it lid					

Leakage Activities

Acoustic sounding	~	Correlation		Ground microphone			Environmental Inspection		~
Other	Isolation of rising main								
Pipe traced		CAT & Genny				Distance	9		
Pipe correlated	Accelerometer		Hy	ydrophones		Distance			

Background Information

Continuous usage and high consumption figures

Activity Summary

Leakage Survey Activities





Pic 5

Pic 6

On arrival at site we met the client and he informed me of the main issues at site.

We were shown the location of two meters both located in woodland adjacent to the college

On checking both meters meter 19JE122211 (pic 1) was registering a flow rate of 90 litres per minute which equates to **5.4m3** per hour or **130m3** per day which equates to (if billed at the normal Water Plus STW rate) **£340 per day** which equates to **£124,319 per year.**

Based on this we continued to check around the site for the run of the pipe and any stop tap that could be found.

There is a small school located within the college grounds and its water is supplied through this meter.

During our investigations we came across two stop tap boxes (Pic 2&3) one of the stop taps was leaking considerably at an estimated rate of 2 litres per minute, which equates to 2.8m3 per day.

This was marked in blue for repair.

On further investigation we came across what was at first throught to be a sewer manhole but after removing the lid it was noted that there was a 50mm MDPE pipe complete with stop tap (pic 4).

This was sounded and had a very strong leak noise on it. After being escorted into the school grounds further investigations were carried out where a significant leak noise was detected along the kerb and in the plant room of Jackson House, further sounding was carried out along the route of the supply pipe and the leak pinpointed in the grass verge and marked with blue paint (Pic 5&6)

Summary & Recommendations

Summary:

Excavate on stop tap and replace or repair leaking tap

Excavate in grass verge and repair leak on 50mm MDPE supply pipe.

To repair both leaks on the marks as stated by for the sum of $\pounds XXXXX + VAT$.

The repair crew to be DBS certified

Survey carried out by

Engineer	H2O Building Services	Date	18 th February 2020